

RECEIVED AUGUST 18, 2008

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Memorandum

M4W41-SLF-08-833

To: H. Hampt E6-35

Date: August 18, 2008

From: S. L. Fitzgerald, Manager
WSCF Analytical Lab

cc: w/Attachments

T. F. Dale S3-30
A. J. Kopriva S3-30
H. K. Mezmarich S3-30
P. D. Mix S3-30

J. E. Trechter S3-30
S. J. Trent E6-35
File/LB

Subject: FINAL RESULTS FOR SAMPLE DELIVERY GROUP WSCF20081412 – SAF NUMBER F06-027

Reference: (1) Groundwater Protection Program-Letter of Instruction, FH-EIS-2003-MEM-001,
October 31, 2002
(2) HNF-SD-CD-QAPP-017, Rev. 9, Waste Sampling & Characterization Facility Quality
Assurance Plan

This letter contains the following attachments for sample delivery group WSCF20081412:

- Cover Sheet (Attachment 1)
- Narrative (Attachment 2)
- Issue Resolution Form (Attachment 3)
- Analytical Results (Attachment 4)
- Sample Receipt Information (Attachment 5)

SLF/grf

Attachments 5

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ATTACHMENT 1

COVER SHEET

Consisting of 2 pages
Including cover page

WSCF SAF NUMBER CROSS REFERENCE

Group#: WSCF20081412
Data Deliverable Date: 29-jul-2008
Data Deliverable: Cover Sheet

SAF#	Sample ID	WSCF#	Matrix
F06-027	B1W7V0	W08GR02438	WATER
	B1W7V1	W08GR02439	WATER
	B1W7V2	W08GR02440	WATER
	B1W7V3	W08GR02441	WATER
	B1W7V4	W08GR02442	WATER
	B1W7V5	W08GR02443	WATER
	B1W7V6	W08GR02444	WATER
	B1W7V7	W08GR02445	WATER
	B1W7V8	W08GR02446	WATER
	B1W7V9	W08GR02447	WATER
	B1W7W0	W08GR02448	WATER

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ATTACHMENT 2

NARRATIVE

Consisting of 3 pages
Including cover page

Introduction

Eleven (11) groundwater samples were received at the WSCF Laboratory on July 11, 2008. Samples were analyzed for the analytes indicated on the attached copy of the chain of custody (COC) form in accordance with the *Groundwater Remediation Program – Letter of Instruction*, referenced in the cover letter.

The narrative (Attachment 2) will address sample characteristics, analyses requested and general information in performance of the analytical methods. A copy of proposed Issue Resolution Form (IRF) is included as Attachment 3. A Data Summary Report (Attachment 4) includes analytical results, a comment report detailing method abnormalities, tentatively identified peaks if applicable, method references, and Laboratory QC information as applicable. Copies of the chain of custody and sample receipt documentation are included as Attachment 5.

It should be noted that the attached chain of custody was stamped “ICED” by the WSCF Laboratory Sample Custodian during sample receiving, indicating the presence of ice in the sample container.

Analytical Methodology for Requested Analyses

Refer to *WSCF Method References Report*, pages 16 through 17, for a complete listing of approved analytical methods.

Inorganic Comments

Anions – The 48-hour, regulatory hold time requirement for this analysis was not met. See comment below. A Duplicate, Matrix Spike, Matrix Spike Duplicate, Blank and Laboratory Control Sample were analyzed with this delivery group per GRP Letter of Instruction. See pages 40 through 49 for QC details. Analytical Note(s):

- Missed Hold Time – copy of proposed IRF is included as Attachment 3.
- Sample results were D flagged if dilution(s) were required.
- Sample results that were less than the reportable limit however greater than the method detection limit, were B flagged.
- Duplicates, Matrix Spikes and Matrix Spike Duplicates were analyzed on samples B1W7K6 and B1W7K8 (SDG# 20081409, SAF# F06-027); B1VWR5 and B1VWP8 (SDG# 20081354, SAF# F06-027); B1W7V3 and B1W7V4 of this SDG; and, B1W7W6 and B1W7X5 (SDG# 20081413, SAF# F06-027);
- Batch QC - B1W7V4 – Nitrite-N – Spike Relative Percent Difference (RPD) slightly exceeded established limits. No flags issued.

All other QC controls are within established laboratory limits.

ICP-AES Metals – The hold time requirements for this analysis were met. A Matrix Spike, Matrix Spike Duplicate, Blank and Laboratory Control Sample were analyzed with this delivery group per the GRP Letter of Instruction. See pages 50 through 53 for QC details. Analytical Note(s):

- Sample results were D flagged if dilution(s) were required.
- Sample results that were less than the reportable limit however greater than the method detection limit, were B flagged.
- Sodium – Sample results exceeded spiking levels by a factor of 4. Spike recoveries are not valid. Check and high standard were analyzed to ensure linearity because the sample results were greater than the calibration standard. Affected sample results were X flagged.

All other QC controls are within the established limits.

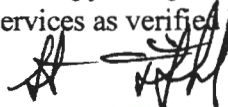
Radiochemistry Comments

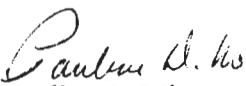
Rad Chem – There are no hold times associated with WSCF's radiochemical methods. A Duplicate, Blank and Laboratory Control Sample were analyzed with this delivery group. See page 66 for QC details. Analytical Note(s):

- Gross Alpha – Duplicate Relative Percent Difference (RPD) exceeded established laboratory limits. No flags issued.

All other QC controls are within the established limits.

I certify that this data package is in compliance with the LOI, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Analytical Manager and Client Services as verified by the following signatures.


Scot L. Fitzgerald
WSCF Analytical Laboratory Manager


Pauline D. Mix
WSCF Client Services

M4W41-SLF-08-833

ATTACHMENT 3

ISSUE RESOLUTION FORM

Consisting of 4 pages
Including cover page

ISSUE RESOLUTION FORM

PNNL TRACKING NUMBER: 08-XXX

DRAFT

Date : **8-17-2008** SAF No. **F06-027**

SDG: **WSCF20081412** LOGIN No.: TEST: ANIONS (@IC-30)

Sample No.(s) **B1W7V2, B1W7V3, B1W7V6, B1W7V7, B1W7V8, B1W7V9, B1W7W0**

W08GR02440, -2441, -2444, -2445, -2446, -2447 and -2448

Submitted By:	WW Baird	Submitted To:	H Hampt
Phone No.	373-7189	Phone No.	376-4319
Fax No.	372-0456	Fax No.	

<u>ISSUE</u>	<u>PROPOSED RESOLUTION</u>
<p>The 2X regulatory hold time authorization was missed on S&GRP samples identified above for the Nitrite-N, Nitrate-N and Phosphate-P analyses.</p> <p>Samples were collected in the field and submitted to the WSCF Laboratory on July 11, 2008 for analysis.</p> <p>Sample analysis was delayed beyond the 2X hold time authorization. Refer to e-mail from S&GRP client (Dana Widrig) authorizing a 2X hold time extension for IC analysis on Apatite Barrier samples. Analytical notes:</p> <p><u>Batch QC – B1W7V3 –</u></p> <ul style="list-style-type: none"> • Sample# B1W7V3 was analyzed on 07/15/08 @ 10:48, slightly exceeding the 2X hold time extension. • Sample# B1W7V7 was analyzed on 07/15/08 @12:01, slightly exceeding the 2X hold time extension. <p>QC Controls - All QC controls are within the established limits.</p> <p><u>Batch QC – B1W7V4 –</u></p> <ul style="list-style-type: none"> • Sample# B1W7V2 was analyzed on 07/15/08 @11:40, slightly exceeding the 2X hold time extension. • Sample# B1W7V6 was analyzed on 07/15/08 @12:19, slightly exceeding the 2X hold time extension. • Sample# B1W7V8 was analyzed on 07/15/08 @ 12:38, slightly exceeding the 2X hold time extension. The Phosphate-P was re-analyzed on 07/16/08 @13:32. • Sample# B1W7V9 was analyzed on 07/15/08 @12:56, slightly exceeding the 2X hold time extension. • Sample# B1W7W0 was analyzed on 07/15/08 @ 13:34, slightly exceeding the 2X hold time extension. 	<p>Accept Nitrite-N, Nitrate-N and Phosphate-P analytical results (accept as-is) and document missed holding time in the case narrative.</p>

QC Controls – Spike Relative Percent Difference (RPD) for Nitrite-N slightly exceeded established limits. No flags issued. All other QC controls are within the established limits.

GRP COMMENTS

Signature and Date

M4W41-SLF-08-833

ATTACHMENT 4

ANALYTICAL RESULTS

Consisting of 57 pages
Including cover page

WSCF ANALYTICAL RESULTS REPORT

for

Groundwater Remediation Program

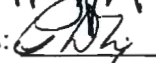
Richland, WA 99354

Attention: Steve Trent

Analytical:

 S. Fitzgerald 8/18/08

Client Services:

 P.D. Mix 8/17/08

All results are reported on an "as received" basis unless otherwise noted in the comment section.

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Contract#: FH-EIS-2003-MEM-001

Report#: WSCF20081412

Report Date: 17-aug-2008

Report WGPP/ver. 5.2

Groundwater Remediation Program

Page 1

Department: Inorganic

W13q Worklist/Batch/QC Report for Group# WSCF20081412

WL#	S#	Batch	QC#	Tray Type	Sample#	Test
37066	2	37492	41861	BLANK		Anions by Ion Chromatography
37066	13	37492	41861	BLANK		Anions by Ion Chromatography
37066	26	37492	41861	BLANK		Anions by Ion Chromatography
37066	3	37492	41861	LCS		Anions by Ion Chromatography
37066	14	37492	41861	LCS		Anions by Ion Chromatography
37066	10	37492	41861	DUP	W08GR02420	Anions by Ion Chromatography
37066	11	37492	41861	MS	W08GR02420	Anions by Ion Chromatography
37066	12	37492	41861	MSD	W08GR02420	Anions by Ion Chromatography
37066	12	37492	41861	SPK-RPD	W08GR02420	Anions by Ion Chromatography
37066	16	37492	41861	DUP	W08GR02422	Anions by Ion Chromatography
37066	17	37492	41861	MS	W08GR02422	Anions by Ion Chromatography
37066	18	37492	41861	MSD	W08GR02422	Anions by Ion Chromatography
37066	18	37492	41861	SPK-RPD	W08GR02422	Anions by Ion Chromatography
37066	23	37492	41861	SAMPLE	W08GR02438	Anions by Ion Chromatography
37066	24	37492	41861	SAMPLE	W08GR02439	Anions by Ion Chromatography
37066	25	37492	41861	SAMPLE	W08GR02443	Anions by Ion Chromatography
37091	2	37520	41872	BLANK		Anions by Ion Chromatography
37091	15	37520	41872	BLANK		Anions by Ion Chromatography
37091	27	37520	41872	BLANK		Anions by Ion Chromatography
37091	3	37520	41872	LCS		Anions by Ion Chromatography
37091	16	37520	41872	LCS		Anions by Ion Chromatography
37091	18	37520	41872	DUP	W08GR02218	Anions by Ion Chromatography
37091	19	37520	41872	MS	W08GR02218	Anions by Ion Chromatography
37091	21	37520	41872	MSD	W08GR02218	Anions by Ion Chromatography
37091	21	37520	41872	SPK-RPD	W08GR02218	Anions by Ion Chromatography
37091	5	37520	41872	DUP	W08GR02441	Anions by Ion Chromatography
37091	6	37520	41872	MS	W08GR02441	Anions by Ion Chromatography
37091	7	37520	41872	MSD	W08GR02441	Anions by Ion Chromatography
37091	4	37520	41872	SAMPLE	W08GR02441	Anions by Ion Chromatography
37091	7	37520	41872	SPK-RPD	W08GR02441	Anions by Ion Chromatography
37091	8	37520	41872	SAMPLE	W08GR02445	Anions by Ion Chromatography
37092	2	37519	41874	BLANK		Anions by Ion Chromatography
37092	14	37519	41874	BLANK		Anions by Ion Chromatography
37092	28	37519	41874	BLANK		Anions by Ion Chromatography
37092	3	37519	41874	LCS		Anions by Ion Chromatography
37092	15	37519	41874	LCS		Anions by Ion Chromatography
37092	8	37519	41874	SAMPLE	W08GR02440	Anions by Ion Chromatography
37092	5	37519	41874	DUP	W08GR02442	Anions by Ion Chromatography
37092	6	37519	41874	MS	W08GR02442	Anions by Ion Chromatography
37092	7	37519	41874	MSD	W08GR02442	Anions by Ion Chromatography
37092	4	37519	41874	SAMPLE	W08GR02442	Anions by Ion Chromatography
37092	7	37519	41874	SPK-RPD	W08GR02442	Anions by Ion Chromatography
37092	9	37519	41874	SAMPLE	W08GR02444	Anions by Ion Chromatography
37092	10	37519	41874	SAMPLE	W08GR02446	Anions by Ion Chromatography
37092	11	37519	41874	SAMPLE	W08GR02447	Anions by Ion Chromatography
37092	12	37519	41874	SAMPLE	W08GR02448	Anions by Ion Chromatography
37092	17	37519	41874	DUP	W08GR02453	Anions by Ion Chromatography
37092	18	37519	41874	MS	W08GR02453	Anions by Ion Chromatography
37092	19	37519	41874	MSD	W08GR02453	Anions by Ion Chromatography
37092	19	37519	41874	SPK-RPD	W08GR02453	Anions by Ion Chromatography

37126	2	37557	41915	BLANK		Anions by Ion Chromatography
37126	13	37557	41915	BLANK		Anions by Ion Chromatography
37126	25	37557	41915	BLANK		Anions by Ion Chromatography
37126	3	37557	41915	LCS		Anions by Ion Chromatography
37126	14	37557	41915	LCS		Anions by Ion Chromatography
37126	16	37557	41915	DUP	W08GR02211	Anions by Ion Chromatography
37126	17	37557	41915	MS	W08GR02211	Anions by Ion Chromatography
37126	18	37557	41915	MSD	W08GR02211	Anions by Ion Chromatography
37126	18	37557	41915	SPK-RPD	W08GR02211	Anions by Ion Chromatography
37092	10	37557	41915	SAMPLE	W08GR02446	Anions by Ion Chromatography
37126	5	37557	41915	DUP	W08GR02462	Anions by Ion Chromatography
37126	6	37557	41915	MS	W08GR02462	Anions by Ion Chromatography
37126	7	37557	41915	MSD	W08GR02462	Anions by Ion Chromatography
37126	7	37557	41915	SPK-RPD	W08GR02462	Anions by Ion Chromatography
37347	1	37776	42312	BLANK		ICP Metals Analysis, Grd H20 P
37347	2	37776	42312	LCS		ICP Metals Analysis, Grd H20 P
37347	4	37776	42312	MS	W08GR02438	ICP Metals Analysis, Grd H20 P
37347	5	37776	42312	MSD	W08GR02438	ICP Metals Analysis, Grd H20 P
37347	3	37776	42312	SAMPLE	W08GR02438	ICP Metals Analysis, Grd H20 P
37347	5	37776	42312	SPK-RPD	W08GR02438	ICP Metals Analysis, Grd H20 P
37347	6	37776	42312	SAMPLE	W08GR02439	ICP Metals Analysis, Grd H20 P
37347	7	37776	42312	SAMPLE	W08GR02440	ICP Metals Analysis, Grd H20 P
37347	8	37776	42312	SAMPLE	W08GR02441	ICP Metals Analysis, Grd H20 P
37347	9	37776	42312	SAMPLE	W08GR02442	ICP Metals Analysis, Grd H20 P
37347	10	37776	42312	SAMPLE	W08GR02443	ICP Metals Analysis, Grd H20 P
37347	11	37776	42312	SAMPLE	W08GR02444	ICP Metals Analysis, Grd H20 P
37347	12	37776	42312	SAMPLE	W08GR02445	ICP Metals Analysis, Grd H20 P
37347	13	37776	42312	SAMPLE	W08GR02446	ICP Metals Analysis, Grd H20 P
37347	14	37776	42312	SAMPLE	W08GR02447	ICP Metals Analysis, Grd H20 P
37347	15	37776	42312	SAMPLE	W08GR02448	ICP Metals Analysis, Grd H20 P

Department: Radiochemistry

W13q Worklist/Batch/QC Report for Group# WSCF20081412

WL#	S#	Batch	QC#	Tray Type	Sample#	Test
37156	1	37582	41977	BLANK		Gross Alpha/Gross Beta (AB32)
37156	2	37582	41977	LCS		Gross Alpha/Gross Beta (AB32)
37156	3	37582	41977	DUP	W08GR02438	Gross Alpha/Gross Beta (AB32)
37156	4	37582	41977	SAMPLE	W08GR02438	Gross Alpha/Gross Beta (AB32)
37156	5	37582	41977	SAMPLE	W08GR02439	Gross Alpha/Gross Beta (AB32)
37156	6	37582	41977	SAMPLE	W08GR02440	Gross Alpha/Gross Beta (AB32)
37156	7	37582	41977	SAMPLE	W08GR02441	Gross Alpha/Gross Beta (AB32)
37156	8	37582	41977	SAMPLE	W08GR02442	Gross Alpha/Gross Beta (AB32)
37156	9	37582	41977	SAMPLE	W08GR02443	Gross Alpha/Gross Beta (AB32)
37156	10	37582	41977	SAMPLE	W08GR02444	Gross Alpha/Gross Beta (AB32)
37156	11	37582	41977	SAMPLE	W08GR02445	Gross Alpha/Gross Beta (AB32)
37156	12	37582	41977	SAMPLE	W08GR02446	Gross Alpha/Gross Beta (AB32)
37156	13	37582	41977	SAMPLE	W08GR02447	Gross Alpha/Gross Beta (AB32)
37156	14	37582	41977	SAMPLE	W08GR02448	Gross Alpha/Gross Beta (AB32)

WSCF

METHOD REFERENCES REPORT

Department: Inorganic

The results provided in this report were generated using the following WSCF Laboratory procedures. For your convenience, this table provides a listing of the regulatory or industry methods that are referenced by each of these WSCF procedures. Please note that the most recent version of the regulatory or industry method is listed here even though the WSCF procedure may reference an older version of the method. Also, a reference to a regulatory or industry method here does not necessarily indicate a verbatim implementation of that method.

LA-505-411	LA-505-411: ELEMENTAL ANALYSIS BY INDUCTIVELY COUPLED PLASMA ATOMIC EMISSION SPE HEIS 6010_METALS_ICP Inductively Coupled Plasma-Atomic Emmission Spectrometry
LA-533-410	LA-533-410: ANION ANALYSIS BY ION CHROMATOGRAPHY EPA-600/R-94-111 300.0 DETERMINATION OF INORGANIC ANIONS BY ION CHROMATOGRAPHY HEIS 300.0_ANIONS_IC Determination of Inorganic Anions by Ion Chromatography

Note: A complete list of WSCF analytical procedures and referenced regulatory or industry methods is available online at <http://www2.rl.gov/phmc/as-dol>.

Report Date: 17-aug-2008
Report#: WSCF20081412
Report WGPPM/5.2

Page 2

WSCF

METHOD REFERENCES REPORT

Department: Radiochemistry

The results provided in this report were generated using the following WSCF Laboratory procedures. For your convenience, this table provides a listing of the regulatory or industry methods that are referenced by each of these WSCF procedures. Please note that the most recent version of the regulatory or industry method is listed here even though the WSCF procedure may reference an older version of the method. Also, a reference to a regulatory or industry method here does not necessarily indicate a verbatim implementation of that method.

LA-508-415	LA-508-415: OPERATION OF THE PROTEAN 2-INCH ALPHA/BETA COUNTING SYSTEM FOR GROSS
HEIS ALPHA_GPC	GROSS ALPHA GPC
HEIS BETA_GPC	GROSS BETA GPC
HEIS SRTOT_SEP_PRECIP_GPC	Strontium 89/90

Note: A complete list of WSCF analytical procedures and referenced regulatory or industry methods is available online at <http://www2.rl.gov/phmc/as-dol>.

Report Date: 17-aug-2008
Report #: WSCF20081412
Report WGPPM/5.2

Page 1

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample #: W08GR02438
Client ID: B1W7V0

TRENT
WSCF

Matrix: WATER

Group #: WSCF20081412
Department: Inorganic
Sampled: 07/11/08
Received: 07/11/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Anions by Ion Chromatography											
Fluoride	16984-48-8	LA-533-410	DU	< 0.210	mg/L			10.00	0.21		07/14/08
Chloride	16887-00-6	LA-533-410	D	94.0	mg/L			10.00	1.1		07/14/08
Nitrogen in Nitrite	NO2-N	LA-533-410	DU	< 0.0990	mg/L			10.00	0.099		07/14/08
Nitrogen in Nitrate	NO3-N	LA-533-410	DU	< 0.360	mg/L			10.00	0.36		07/14/08
Phosphate (P) by IC	PO4-P	LA-533-410	D	204	mg/L			51.00	1.6		07/14/08
Sulfate	14808-79-8	LA-533-410	BD	1.29	mg/L			10.00	0.77		07/14/08
ICP Metals Analysis, Grd H2O P Prep											07/28/08
ICP Metals Analysis, Grd H2O P											
Aluminum	7429-90-5	LA-505-411	DU	< 260	ug/L			5.00	2.6e+02		08/11/08
Iron	7439-89-6	LA-505-411	BD	830	ug/L			5.00	1.2e+02		08/11/08
Magnesium	7439-95-4	LA-505-411	D	4.26e+03	ug/L			5.00	2.5e+02		08/11/08
Manganese	7439-96-5	LA-505-411	D	813	ug/L			5.00	20		08/11/08
Nickel	7440-02-0	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/11/08
Potassium	7440-09-7	LA-505-411	BD	3.56e+03	ug/L			5.00	8.5e+02		08/11/08
Silver	7440-22-4	LA-505-411	DU	< 25.0	ug/L			5.00	25		08/11/08
Sodium	7440-23-5	LA-505-411	DX	6.53e+05	ug/L			5.00	2.6e+02		08/11/08
Antimony	7440-36-0	LA-505-411	DU	< 280	ug/L			5.00	2.8e+02		08/11/08
Barium	7440-39-3	LA-505-411	BD	36.0	ug/L			5.00	20		08/11/08
Cadmium	7440-43-9	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/11/08
Chromium	7440-47-3	LA-505-411	DU	< 65.0	ug/L			5.00	65		08/11/08
Cobalt	7440-48-4	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/11/08
Copper	7440-50-8	LA-505-411	DU	< 30.0	ug/L			5.00	30		08/11/08
Vanadium	7440-62-2	LA-505-411	DU	< 60.0	ug/L			5.00	60		08/11/08
Zinc	7440-66-6	LA-505-411	DU	< 45.0	ug/L			5.00	45		08/11/08

MDL=Minimum Detection Limit

RQ=Result Qualifier

TP Err=Total Propagated Error

DF=Dilution Factor

* - Indicates results that have NOT been validated;

+ - Indicates more than six qualifier symbols

Report WGPP/ver. 5.2

Groundwater Remediation Program

B - The analyte < the RDL but > = the IDL/MDL (inorg)

D - Analyte was identified at a secondary dilution factor(inorg)

U - Analyzed for but not detected above limiting criteria.

D - Analyte was identified at a secondary dilution factor

U - Analyzed for but not detected above limiting criteria(inorg)

X - Other flags/notes described in the comments/narrative(inorg)

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR02438
Client ID: B1W7V0

TRENT
 WSCF

Matrix: WATER

Group #: WSCF20081412
Department: Inorganic
Sampled: 07/11/08
Received: 07/11/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Calcium	7440-70-2	LA-505-411	D	1.59e+04	ug/L			5.00	3.6e+02		08/11/08
Lead	7439-92-1	LA-505-411	DU	< 225	ug/L			5.00	2.2e+02		08/11/08
Molybdenum	7439-98-7	LA-505-411	DU	< 25.0	ug/L			5.00	25		08/11/08
Strontium	7440-24-6	LA-505-411	D	186	ug/L			5.00	20		08/11/08
Arsenic	7440-38-2	LA-505-411	DU	< 390	ug/L			5.00	3.9e+02		08/11/08

MDL=Minimum Detection Limit

RQ=Result Qualifier

TP Err=Total Propagated Error

DF=Dilution Factor

B - The analyte < the RDL but > = the IDL/MDL (inorg)

D - Analyte was identified at a secondary dilution factor(inorg)

U - Analyzed for but not detected above limiting criteria.

D - Analyte was identified at a secondary dilution factor

U - Analyzed for but not detected above limiting criteria(inorg)

X - Other flags/notes described in the comments/narrative(inorg)

* - Indicates results that have NOT been validated; + - Indicates more than six qualifier symbols

Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR02439
Client ID: B1W7V1

TRENT
 WSCF

Matrix: WATER

Group #: WSCF20081412
Department: Inorganic
Sampled: 07/11/08
Received: 07/11/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Anions by Ion Chromatography											
Fluoride	16984-48-8	LA-533-410	DU	< 0.210	mg/L			10.00	0.21		07/14/08
Chloride	16887-00-6	LA-533-410	D	119	mg/L			10.00	1.1		07/14/08
Nitrogen in Nitrite	NO2-N	LA-533-410	DU	< 0.0990	mg/L			10.00	0.099		07/14/08
Nitrogen in Nitrate	NO3-N	LA-533-410	DU	< 0.360	mg/L			10.00	0.36		07/14/08
Phosphate (P) by IC	PO4-P	LA-533-410	D	315	mg/L			51.00	1.6		07/14/08
Sulfate	14808-79-8	LA-533-410	DU	< 0.770	mg/L			10.00	0.77		07/14/08
ICP Metals Analysis, Grd H20 P Prep											07/28/08
ICP Metals Analysis, Grd H20 P											
Aluminum	7429-90-5	LA-505-411	DU	< 260	ug/L			5.00	2.6e+02		08/11/08
Iron	7439-89-6	LA-505-411	D	1.16e+03	ug/L			5.00	1.2e+02		08/11/08
Magnesium	7439-95-4	LA-505-411	D	2.39e+03	ug/L			5.00	2.5e+02		08/11/08
Manganese	7439-96-5	LA-505-411	D	786	ug/L			5.00	20		08/11/08
Nickel	7440-02-0	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/11/08
Potassium	7440-09-7	LA-505-411	D	4.54e+03	ug/L			5.00	8.5e+02		08/11/08
Silver	7440-22-4	LA-505-411	DU	< 25.0	ug/L			5.00	25		08/11/08
Sodium	7440-23-5	LA-505-411	DX	8.33e+05	ug/L			5.00	2.6e+02		08/11/08
Antimony	7440-36-0	LA-505-411	DU	< 280	ug/L			5.00	2.8e+02		08/11/08
Barium	7440-39-3	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/11/08
Cadmium	7440-43-9	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/11/08
Chromium	7440-47-3	LA-505-411	DU	< 65.0	ug/L			5.00	65		08/11/08
Cobalt	7440-48-4	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/11/08
Copper	7440-50-8	LA-505-411	DU	< 30.0	ug/L			5.00	30		08/11/08
Vanadium	7440-62-2	LA-505-411	DU	< 60.0	ug/L			5.00	60		08/11/08
Zinc	7440-66-6	LA-505-411	DU	< 45.0	ug/L			5.00	45		08/11/08

MDL=Minimum Detection Limit

RQ=Result Qualifier

TP Err=Total Propagated Error

DF=Dilution Factor

B - The analyte < the RDL but >= the IDL/MDL (inorg)

D - Analyte was identified at a secondary dilution factor(inorg)

U - Analyzed for but not detected above limiting criteria.

D - Analyte was identified at a secondary dilution factor

U - Analyzed for but not detected above limiting criteria(inorg)

X - Other flags/notes described in the comments/narrative(inorg)

* - Indicates results that have NOT been validated;

+ - Indicates more than six qualifier symbols

Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR02439
Client ID: B1W7V1

TRENT
WSCF

Matrix: WATER

Group #: WSCF20081412
Department: Inorganic
Sampled: 07/11/08
Received: 07/11/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Calcium	7440-70-2	LA-505-411	D	1.21e +04	ug/L			5.00	3.6e +02		08/11/08
Lead	7439-92-1	LA-505-411	DU	< 225	ug/L			5.00	2.2e +02		08/11/08
Molybdenum	7439-98-7	LA-505-411	DU	< 25.0	ug/L			5.00	25		08/11/08
Strontium	7440-24-6	LA-505-411	D	208	ug/L			5.00	20		08/11/08
Arsenic	7440-38-2	LA-505-411	DU	< 390	ug/L			5.00	3.9e +02		08/11/08

MDL=Minimum Detection Limit

RQ=Result Qualifier

TP Err=Total Propagated Error

DF=Dilution Factor

* - Indicates results that have NOT been validated;

B - The analyte < the RDL but > = the IDL/MDL (inorg)

D - Analyte was identified at a secondary dilution factor(inorg)

U - Analyzed for but not detected above limiting criteria.

+ - Indicates more than six qualifier symbols

D - Analyte was identified at a secondary dilution factor

U - Analyzed for but not detected above limiting criteria(inorg)

X - Other flags/notes described in the comments/narrative(inorg)

Report WGPP/ver. 5.2

Groundwater Remediation Program

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WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR02440
Client ID: B1W7V2

TRENT
 WSCF

Matrix: WATER

Group #: WSCF20081412
Department: Inorganic
Sampled: 07/11/08
Received: 07/11/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Anions by Ion Chromatography											
Fluoride	16984-48-8	LA-533-410	DU	< 0.693	mg/L			33.00	0.69		07/15/08
Chloride	16887-00-6	LA-533-410	D	579	mg/L			33.00	3.6		07/15/08
Nitrogen in Nitrite	NO2-N	LA-533-410	DU	< 0.327	mg/L			33.00	0.33		07/15/08
Nitrogen in Nitrate	NO3-N	LA-533-410	DU	< 1.19	mg/L			33.00	1.2		07/15/08
Phosphate (P) by IC	PO4-P	LA-533-410	D	1.61e+03	mg/L			2.01e+002	6.4		07/15/08
Sulfate	14808-79-8	LA-533-410	BD	20.4	mg/L			33.00	2.5		07/15/08
ICP Metals Analysis, Grd H20 P Prep											07/28/08
ICP Metals Analysis, Grd H20 P											
Aluminum	7429-90-5	LA-505-411	DU	< 260	ug/L			5.00	2.6e+02		08/11/08
Iron	7439-89-6	LA-505-411	DU	< 125	ug/L			5.00	1.2e+02		08/11/08
Magnesium	7439-95-4	LA-505-411	D	1.05e+04	ug/L			5.00	2.5e+02		08/11/08
Manganese	7439-96-5	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/11/08
Nickel	7440-02-0	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/11/08
Potassium	7440-09-7	LA-505-411	D	2.73e+04	ug/L			5.00	8.5e+02		08/11/08
Silver	7440-22-4	LA-505-411	DU	< 25.0	ug/L			5.00	25		08/11/08
Sodium	7440-23-5	LA-505-411	DX	5.19e+06	ug/L			5.00	2.6e+02		08/11/08
Antimony	7440-36-0	LA-505-411	DU	< 280	ug/L			5.00	2.8e+02		08/11/08
Barium	7440-39-3	LA-505-411	BD	23.0	ug/L			5.00	20		08/11/08
Cadmium	7440-43-9	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/11/08
Chromium	7440-47-3	LA-505-411	DU	< 65.0	ug/L			5.00	65		08/11/08
Cobalt	7440-48-4	LA-505-411	BD	22.0	ug/L			5.00	20		08/11/08
Copper	7440-50-8	LA-505-411	DU	< 30.0	ug/L			5.00	30		08/11/08
Vanadium	7440-62-2	LA-505-411	DU	< 60.0	ug/L			5.00	60		08/11/08
Zinc	7440-66-6	LA-505-411	DU	< 45.0	ug/L			5.00	45		08/11/08

MDL=Minimum Detection Limit

RQ=Result Qualifier

TP Err=Total Propagated Error

DF=Dilution Factor

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Report WGPP/ver. 5.2

Groundwater Remediation Program

B - The analyte < the RDL but >= the IDL/MDL (inorg)

D - Analyte was identified at a secondary dilution factor(inorg)

U - Analyzed for but not detected above limiting criteria.

D - Analyte was identified at a secondary dilution factor

U - Analyzed for but not detected above limiting criteria(inorg)

X - Other flags/notes described in the comments/narrative(inorg)

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR02440
Client ID: B1W7V2

TRENT
WSCF

Matrix: WATER

Group #: WSCF20081412
Department: Inorganic
Sampled: 07/11/08
Received: 07/11/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Calcium	7440-70-2	LA-505-411	D	4.01e+04	ug/L			5.00	3.6e+02		08/11/08
Lead	7439-92-1	LA-505-411	DU	< 225	ug/L			5.00	2.2e+02		08/11/08
Molybdenum	7439-98-7	LA-505-411	DU	< 25.0	ug/L			5.00	25		08/11/08
Strontium	7440-24-6	LA-505-411	D	1.30e+03	ug/L			5.00	20		08/11/08
Arsenic	7440-38-2	LA-505-411	DU	< 390	ug/L			5.00	3.9e+02		08/11/08

MDL=Minimum Detection Limit

RQ=Result Qualifier

TP Err=Total Propagated Error

DF=Dilution Factor

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Report WGPP/ver. 5.2

Groundwater Remediation Program

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WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR02441
Client ID: B1W7V3

TRENT
WSCF

Matrix: WATER

Group #: WSCF20081412
Department: Inorganic
Sampled: 07/11/08
Received: 07/11/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Anions by Ion Chromatography											
Fluoride	16984-48-8	LA-533-410	DU	< 0.210	mg/L			10.00	0.21		07/15/08
Chloride	16887-00-6	LA-533-410	D	50.1	mg/L			10.00	1.1		07/15/08
Nitrogen in Nitrite	NO2-N	LA-533-410	DU	< 0.0990	mg/L			10.00	0.099		07/15/08
Nitrogen in Nitrate	NO3-N	LA-533-410	DU	< 0.360	mg/L			10.00	0.36		07/15/08
Phosphate (P) by IC	PO4-P	LA-533-410	D	6.82	mg/L			10.00	0.32		07/15/08
Sulfate	14808-79-8	LA-533-410	BD	4.31	mg/L			10.00	0.77		07/15/08
ICP Metals Analysis, Grd H2O P Prep											07/28/08
ICP Metals Analysis, Grd H2O P											
Aluminum	7429-90-5	LA-505-411	DU	< 260	ug/L			5.00	2.6e+02		08/11/08
Iron	7439-89-6	LA-505-411	D	946	ug/L			5.00	1.2e+02		08/11/08
Magnesium	7439-95-4	LA-505-411	D	9.45e+03	ug/L			5.00	2.5e+02		08/11/08
Manganese	7439-96-5	LA-505-411	D	2.85e+03	ug/L			5.00	20		08/11/08
Nickel	7440-02-0	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/11/08
Potassium	7440-09-7	LA-505-411	BD	2.75e+03	ug/L			5.00	8.5e+02		08/11/08
Silver	7440-22-4	LA-505-411	DU	< 25.0	ug/L			5.00	25		08/11/08
Sodium	7440-23-5	LA-505-411	DX	1.12e+05	ug/L			5.00	2.6e+02		08/11/08
Antimony	7440-36-0	LA-505-411	DU	< 280	ug/L			5.00	2.8e+02		08/11/08
Barium	7440-39-3	LA-505-411	BD	44.0	ug/L			5.00	20		08/11/08
Cadmium	7440-43-9	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/11/08
Chromium	7440-47-3	LA-505-411	DU	< 65.0	ug/L			5.00	65		08/11/08
Cobalt	7440-48-4	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/11/08
Copper	7440-50-8	LA-505-411	DU	< 30.0	ug/L			5.00	30		08/11/08
Vanadium	7440-62-2	LA-505-411	DU	< 60.0	ug/L			5.00	60		08/11/08
Zinc	7440-66-6	LA-505-411	DU	< 45.0	ug/L			5.00	45		08/11/08

MDL=Minimum Detection Limit

RQ=Result Qualifier

TP Err=Total Propagated Error

DF=Dilution Factor

B - The analyte < the RDL but > = the IDL/MDL (inorg)

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Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR02441
Client ID: B1W7V3

TRENT
WSCF

Matrix: WATER

Group #: WSCF20081412
Department: Inorganic
Sampled: 07/11/08
Received: 07/11/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Calcium	7440-70-2	LA-505-411	D	5.27e + 04	ug/L			5.00	3.6e + 02		08/11/08
Lead	7439-92-1	LA-505-411	DU	< 225	ug/L			5.00	2.2e + 02		08/11/08
Molybdenum	7439-98-7	LA-505-411	DU	< 25.0	ug/L			5.00	25		08/11/08
Strontium	7440-24-6	LA-505-411	D	192	ug/L			5.00	20		08/11/08
Arsenic	7440-38-2	LA-505-411	DU	< 390	ug/L			5.00	3.9e + 02		08/11/08

MDL=Minimum Detection Limit
RQ=Result Qualifier
TP Err=Total Propagated Error
DF=Dilution Factor

B - The analyte < the RDL but >= the IDL/MDL (inorg)
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 U - Analyzed for but not detected above limiting criteria.

D - Analyte was identified at a secondary dilution factor
 U - Analyzed for but not detected above limiting criteria(inorg)
 X - Other flags/notes described in the comments/narrative(inorg)

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Report WGPP/ver. 5.2
 Groundwater Remediation Program

WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR02442
Client ID: B1W7V4

TRENT
 WSCF

Matrix: WATER

Group #: WSCF20081412
Department: Inorganic
Sampled: 07/11/08
Received: 07/11/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Anions by Ion Chromatography											
Fluoride	16984-48-8	LA-533-410	DU	< 0.210	mg/L			10.00	0.21		07/15/08
Chloride	16887-00-6	LA-533-410	D	29.6	mg/L			10.00	1.1		07/15/08
Nitrogen in Nitrite	NO2-N	LA-533-410	BD	0.239	mg/L			10.00	0.099		07/15/08
Nitrogen in Nitrate	NO3-N	LA-533-410	BD	0.491	mg/L			10.00	0.36		07/15/08
Phosphate (P) by IC	PO4-P	LA-533-410	D	50.4	mg/L			10.00	0.32		07/15/08
Sulfate	14808-79-8	LA-533-410	BD	8.40	mg/L			10.00	0.77		07/15/08
ICP Metals Analysis, Grd H20 P Prep											07/28/08
ICP Metals Analysis, Grd H20 P											
Aluminum	7429-90-5	LA-505-411	DU	< 260	ug/L			5.00	2.6e+02		08/11/08
Iron	7439-89-6	LA-505-411	DU	< 125	ug/L			5.00	1.2e+02		08/11/08
Magnesium	7439-95-4	LA-505-411	D	2.87e+03	ug/L			5.00	2.5e+02		08/11/08
Manganese	7439-96-5	LA-505-411	D	277	ug/L			5.00	20		08/11/08
Nickel	7440-02-0	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/11/08
Potassium	7440-09-7	LA-505-411	BD	1.99e+03	ug/L			5.00	8.5e+02		08/11/08
Silver	7440-22-4	LA-505-411	DU	< 25.0	ug/L			5.00	25		08/11/08
Sodium	7440-23-5	LA-505-411	DX	1.74e+05	ug/L			5.00	2.6e+02		08/11/08
Antimony	7440-36-0	LA-505-411	DU	< 280	ug/L			5.00	2.8e+02		08/11/08
Barium	7440-39-3	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/11/08
Cadmium	7440-43-9	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/11/08
Chromium	7440-47-3	LA-505-411	DU	< 65.0	ug/L			5.00	65		08/11/08
Cobalt	7440-48-4	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/11/08
Copper	7440-50-8	LA-505-411	DU	< 30.0	ug/L			5.00	30		08/11/08
Vanadium	7440-62-2	LA-505-411	DU	< 60.0	ug/L			5.00	60		08/11/08
Zinc	7440-66-6	LA-505-411	DU	< 45.0	ug/L			5.00	45		08/11/08

MDL=Minimum Detection Limit

RQ=Result Qualifier

TP Err=Total Propagated Error

DF=Dilution Factor

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Report WGPP/ver. 5.2

Groundwater Remediation Program

B - The analyte < the RDL but > = the IDL/MDL (inorg)

D - Analyte was identified at a secondary dilution factor(inorg)

U - Analyzed for but not detected above limiting criteria.

D - Analyte was identified at a secondary dilution factor

U - Analyzed for but not detected above limiting criteria(inorg)

X - Other flags/notes described in the comments/narrative(inorg)

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR02442
Client ID: B1W7V4

TRENT
WSCF

Matrix: WATER

Group #: WSCF20081412
Department: Inorganic
Sampled: 07/11/08
Received: 07/11/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Calcium	7440-70-2	LA-505-411	D	1.40e + 04	ug/L			5.00	3.6e + 02		08/11/08
Lead	7439-92-1	LA-505-411	DU	< 225	ug/L			5.00	2.2e + 02		08/11/08
Molybdenum	7439-98-7	LA-505-411	DU	< 25.0	ug/L			5.00	25		08/11/08
Strontium	7440-24-6	LA-505-411	BD	63.0	ug/L			5.00	20		08/11/08
Arsenic	7440-38-2	LA-505-411	DU	< 390	ug/L			5.00	3.9e + 02		08/11/08

MDL=Minimum Detection Limit

RQ=Result Qualifier

TP Err=Total Propagated Error

DF=Dilution Factor

B - The analyte < the RDL but > = the IDL/MDL (inorg)

D - Analyte was identified at a secondary dilution factor(inorg)

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U - Analyzed for but not detected above limiting criteria(inorg)

X - Other flags/notes described in the comments/narrative(inorg)

* - Indicates results that have NOT been validated; + - Indicates more than six qualifier symbols

Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR02443
Client ID: B1W7V5

TRENT
WSCF

Matrix: WATER

Group #: WSCF20081412
Department: Inorganic
Sampled: 07/11/08
Received: 07/11/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Anions by Ion Chromatography											
Fluoride	16984-48-8	LA-533-410	DU	< 0.210	mg/L			10.00	0.21		07/14/08
Chloride	16887-00-6	LA-533-410	D	127	mg/L			10.00	1.1		07/14/08
Nitrogen in Nitrite	NO2-N	LA-533-410	DU	< 0.0990	mg/L			10.00	0.099		07/14/08
Nitrogen in Nitrate	NO3-N	LA-533-410	DU	< 0.360	mg/L			10.00	0.36		07/14/08
Phosphate (P) by IC	PO4-P	LA-533-410	D	61.6	mg/L			10.00	0.32		07/14/08
Sulfate	14808-79-8	LA-533-410	DU	< 0.770	mg/L			10.00	0.77		07/14/08
ICP Metals Analysis, Grd H20 P Prep											07/28/08
ICP Metals Analysis, Grd H20 P											
Aluminum	7429-90-5	LA-505-411	DU	< 260	ug/L			5.00	2.6e +02		08/11/08
Iron	7439-89-6	LA-505-411	D	1.52e +03	ug/L			5.00	1.2e +02		08/11/08
Magnesium	7439-95-4	LA-505-411	D	1.22e +04	ug/L			5.00	2.5e +02		08/11/08
Manganese	7439-96-5	LA-505-411	D	989	ug/L			5.00	20		08/11/08
Nickel	7440-02-0	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/11/08
Potassium	7440-09-7	LA-505-411	D	4.59e +03	ug/L			5.00	8.5e +02		08/11/08
Silver	7440-22-4	LA-505-411	DU	< 25.0	ug/L			5.00	25		08/11/08
Sodium	7440-23-5	LA-505-411	DX	4.10e +05	ug/L			5.00	2.6e +02		08/11/08
Antimony	7440-36-0	LA-505-411	DU	< 280	ug/L			5.00	2.8e +02		08/11/08
Barium	7440-39-3	LA-505-411	BD	32.0	ug/L			5.00	20		08/11/08
Cadmium	7440-43-9	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/11/08
Chromium	7440-47-3	LA-505-411	DU	< 65.0	ug/L			5.00	65		08/11/08
Cobalt	7440-48-4	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/11/08
Copper	7440-50-8	LA-505-411	DU	< 30.0	ug/L			5.00	30		08/11/08
Vanadium	7440-62-2	LA-505-411	DU	< 60.0	ug/L			5.00	60		08/11/08
Zinc	7440-66-6	LA-505-411	DU	< 45.0	ug/L			5.00	45		08/11/08

MDL=Minimum Detection Limit

RQ=Result Qualifier

TP Err=Total Propagated Error

DF=Dilution Factor

* - Indicates results that have NOT been validated;

+ - Indicates more than six qualifier symbols

B - The analyte < the RDL but > = the IDL/MDL (inorg)

D - Analyte was identified at a secondary dilution factor(inorg)

U - Analyzed for but not detected above limiting criteria.

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U - Analyzed for but not detected above limiting criteria(inorg)

X - Other flags/notes described in the comments/narrative(inorg)

Report WGPP/ver. 5.2

Groundwater Remediation Program

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WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR02443
Client ID: B1W7V5

TRENT
WSCF

Matrix: WATER

Group #: WSCF20081412
Department: Inorganic
Sampled: 07/11/08
Received: 07/11/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Calcium	7440-70-2	LA-505-411	D	4.83e + 04	ug/L			5.00	3.6e + 02		08/11/08
Lead	7439-92-1	LA-505-411	DU	< 225	ug/L			5.00	2.2e + 02		08/11/08
Molybdenum	7439-98-7	LA-505-411	DU	< 25.0	ug/L			5.00	25		08/11/08
Strontium	7440-24-6	LA-505-411	D	205	ug/L			5.00	20		08/11/08
Arsenic	7440-38-2	LA-505-411	DU	< 390	ug/L			5.00	3.9e + 02		08/11/08

MDL=Minimum Detection Limit

RQ=Result Qualifier

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Report WGPP/ver. 5.2

Groundwater Remediation Program

Page 24

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR02444
Client ID: B1W7V6

TRENT
WSCF

Matrix: WATER

Group #: WSCF20081412
Department: Inorganic
Sampled: 07/11/08
Received: 07/11/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Anions by Ion Chromatography											
Fluoride	16984-48-8	LA-533-410	DU	< 0.210	mg/L			10.00	0.21		07/15/08
Chloride	16887-00-6	LA-533-410	D	146	mg/L			10.00	1.1		07/15/08
Nitrogen in Nitrite	NO2-N	LA-533-410	DU	< 0.0990	mg/L			10.00	0.099		07/15/08
Nitrogen in Nitrate	NO3-N	LA-533-410	DU	< 0.360	mg/L			10.00	0.36		07/15/08
Phosphate (P) by IC	PO4-P	LA-533-410	D	116	mg/L			10.00	0.32		07/15/08
Sulfate	14808-79-8	LA-533-410	DU	< 0.770	mg/L			10.00	0.77		07/15/08
ICP Metals Analysis, Grd H2O P Prep											07/28/08
ICP Metals Analysis, Grd H2O P											
Aluminum	7429-90-5	LA-505-411	DU	< 260	ug/L			5.00	2.8e+02		08/11/08
Iron	7439-89-6	LA-505-411	D	329	ug/L			5.00	1.2e+02		08/11/08
Magnesium	7439-95-4	LA-505-411	D	5.61e+03	ug/L			5.00	2.5e+02		08/11/08
Manganese	7439-96-5	LA-505-411	D	1.05e+03	ug/L			5.00	20		08/11/08
Nickel	7440-02-0	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/11/08
Potassium	7440-09-7	LA-505-411	D	3.21e+03	ug/L			5.00	8.5e+02		08/11/08
Silver	7440-22-4	LA-505-411	DU	< 25.0	ug/L			5.00	25		08/11/08
Sodium	7440-23-5	LA-505-411	DX	5.08e+05	ug/L			5.00	2.8e+02		08/11/08
Antimony	7440-36-0	LA-505-411	DU	< 280	ug/L			5.00	2.8e+02		08/11/08
Barium	7440-39-3	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/11/08
Cadmium	7440-43-9	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/11/08
Chromium	7440-47-3	LA-505-411	DU	< 65.0	ug/L			5.00	65		08/11/08
Cobalt	7440-48-4	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/11/08
Copper	7440-50-8	LA-505-411	DU	< 30.0	ug/L			5.00	30		08/11/08
Vanadium	7440-62-2	LA-505-411	DU	< 60.0	ug/L			5.00	60		08/11/08
Zinc	7440-66-6	LA-505-411	DU	< 45.0	ug/L			5.00	45		08/11/08

MDL=Minimum Detection Limit

RQ=Result Qualifier

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Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR02444
Client ID: B1W7V6

TRENT
 WSCF

Matrix: WATER

Group #: WSCF20081412
Department: Inorganic
Sampled: 07/11/08
Received: 07/11/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Calcium	7440-70-2	LA-505-411	D	1.96e+04	ug/L			5.00	3.6e+02		08/11/08
Lead	7439-92-1	LA-505-411	DU	< 225	ug/L			5.00	2.2e+02		08/11/08
Molybdenum	7439-98-7	LA-505-411	DU	< 25.0	ug/L			5.00	25		08/11/08
Strontium	7440-24-6	LA-505-411	D	100	ug/L			5.00	20		08/11/08
Arsenic	7440-38-2	LA-505-411	DU	< 390	ug/L			5.00	3.9e+02		08/11/08

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Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR02445
Client ID: B1W7V7

TRENT
WSCF

Matrix: WATER

Group #: WSCF20081412
Department: Inorganic
Sampled: 07/11/08
Received: 07/11/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Anions by Ion Chromatography											
Fluoride	16984-48-8	LA-533-410	DU	< 0.210	mg/L			10.00	0.21		07/15/08
Chloride	16887-00-6	LA-533-410	D	79.2	mg/L			10.00	1.1		07/15/08
Nitrogen in Nitrite	NO2-N	LA-533-410	DU	< 0.0990	mg/L			10.00	0.099		07/15/08
Nitrogen in Nitrate	NO3-N	LA-533-410	DU	< 0.360	mg/L			10.00	0.36		07/15/08
Phosphate (P) by IC	PO4-P	LA-533-410	D	63.4	mg/L			10.00	0.32		07/15/08
Sulfate	14808-79-8	LA-533-410	DU	< 0.770	mg/L			10.00	0.77		07/15/08
ICP Metals Analysis, Grd H2O P Prep											07/28/08
ICP Metals Analysis, Grd H2O P											
Aluminum	7429-90-5	LA-505-411	DU	< 260	ug/L			5.00	2.6e+02		08/11/08
Iron	7439-89-6	LA-505-411	D	1.59e+03	ug/L			5.00	1.2e+02		08/11/08
Magnesium	7439-95-4	LA-505-411	D	1.24e+04	ug/L			5.00	2.5e+02		08/11/08
Manganese	7439-96-5	LA-505-411	D	1.88e+03	ug/L			5.00	20		08/11/08
Nickel	7440-02-0	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/11/08
Potassium	7440-09-7	LA-505-411	BD	3.58e+03	ug/L			5.00	8.5e+02		08/11/08
Silver	7440-22-4	LA-505-411	DU	< 25.0	ug/L			5.00	25		08/11/08
Sodium	7440-23-5	LA-505-411	DX	3.05e+05	ug/L			5.00	2.6e+02		08/11/08
Antimony	7440-36-0	LA-505-411	DU	< 280	ug/L			5.00	2.8e+02		08/11/08
Barium	7440-39-3	LA-505-411	BD	20.0	ug/L			5.00	20		08/11/08
Cadmium	7440-43-9	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/11/08
Chromium	7440-47-3	LA-505-411	DU	< 65.0	ug/L			5.00	65		08/11/08
Cobalt	7440-48-4	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/11/08
Copper	7440-50-8	LA-505-411	DU	< 30.0	ug/L			5.00	30		08/11/08
Vanadium	7440-62-2	LA-505-411	DU	< 60.0	ug/L			5.00	60		08/11/08
Zinc	7440-66-6	LA-505-411	DU	< 45.0	ug/L			5.00	45		08/11/08

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X - Other flags/notes described in the comments/narrative(inorg)

Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR02445
Client ID: B1W7V7

TRENT
WSCF

Matrix: WATER

Group #: WSCF20081412
Department: Inorganic
Sampled: 07/11/08
Received: 07/11/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Calcium	7440-70-2	LA-505-411	D	5.92e + 04	ug/L			5.00	3.6e + 02		08/11/08
Lead	7439-92-1	LA-505-411	DU	< 225	ug/L			5.00	2.2e + 02		08/11/08
Molybdenum	7439-98-7	LA-505-411	DU	< 25.0	ug/L			5.00	25		08/11/08
Strontium	7440-24-6	LA-505-411	D	192	ug/L			5.00	20		08/11/08
Arsenic	7440-38-2	LA-505-411	DU	< 390	ug/L			5.00	3.9e + 02		08/11/08

MDL=Minimum Detection Limit

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Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR02446
Client ID: B1W7V8

TRENT
WSCF

Matrix: WATER

Group #: WSCF20081412
Department: Inorganic
Sampled: 07/11/08
Received: 07/11/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Anions by Ion Chromatography											
Fluoride	16984-48-8	LA-533-410	DU	< 0.210	mg/L			10.00	0.21		07/15/08
Chloride	16887-00-6	LA-533-410	D	139	mg/L			10.00	1.1		07/15/08
Nitrogen in Nitrite	NO2-N	LA-533-410	DU	< 0.0990	mg/L			10.00	0.099		07/15/08
Nitrogen in Nitrate	NO3-N	LA-533-410	DU	< 0.360	mg/L			10.00	0.36		07/15/08
Phosphate (P) by IC	PO4-P	LA-533-410	D	261	mg/L			20.00	0.64		07/16/08
Sulfate	14808-79-8	LA-533-410	DU	< 0.770	mg/L			10.00	0.77		07/15/08
ICP Metals Analysis, Grd H2O P Prep											07/28/08
ICP Metals Analysis, Grd H2O P											
Aluminum	7429-90-5	LA-505-411	DU	< 260	ug/L			5.00	2.6e+02		08/11/08
Iron	7439-89-6	LA-505-411	BD	503	ug/L			5.00	1.2e+02		08/11/08
Magnesium	7439-95-4	LA-505-411	D	4.98e+03	ug/L			5.00	2.5e+02		08/11/08
Manganese	7439-96-5	LA-505-411	D	1.21e+03	ug/L			5.00	20		08/11/08
Nickel	7440-02-0	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/11/08
Potassium	7440-09-7	LA-505-411	D	4.47e+03	ug/L			5.00	8.5e+02		08/11/08
Silver	7440-22-4	LA-505-411	DU	< 25.0	ug/L			5.00	25		08/11/08
Sodium	7440-23-5	LA-505-411	DX	9.12e+05	ug/L			5.00	2.6e+02		08/11/08
Antimony	7440-36-0	LA-505-411	DU	< 280	ug/L			5.00	2.8e+02		08/11/08
Barium	7440-39-3	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/11/08
Cadmium	7440-43-9	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/11/08
Chromium	7440-47-3	LA-505-411	DU	< 65.0	ug/L			5.00	65		08/11/08
Cobalt	7440-48-4	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/11/08
Copper	7440-50-8	LA-505-411	DU	< 30.0	ug/L			5.00	30		08/11/08
Vanadium	7440-62-2	LA-505-411	DU	< 60.0	ug/L			5.00	60		08/11/08
Zinc	7440-66-6	LA-505-411	DU	< 45.0	ug/L			5.00	45		08/11/08

MDL = Minimum Detection Limit

RQ = Result Qualifier

TP Err = Total Propagated Error

DF = Dilution Factor

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U - Analyzed for but not detected above limiting criteria (inorg)

X - Other flags/notes described in the comments/narrative (inorg)

Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR02446
Client ID: B1W7V8

TRENT
 WSCF

Matrix: WATER

Group #: WSCF20081412
Department: Inorganic
Sampled: 07/11/08
Received: 07/11/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Calcium	7440-70-2	LA-505-411	D	1.33e+04	ug/L			5.00	3.6e+02		08/11/08
Lead	7439-92-1	LA-505-411	DU	< 225	ug/L			5.00	2.2e+02		08/11/08
Molybdenum	7439-98-7	LA-505-411	DU	< 25.0	ug/L			5.00	25		08/11/08
Strontium	7440-24-6	LA-505-411	BD	91.0	ug/L			5.00	20		08/11/08
Arsenic	7440-38-2	LA-505-411	DU	< 390	ug/L			5.00	3.9e+02		08/11/08

MDL=Minimum Detection Limit

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Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR02447
Client ID: B1W7V9

TRENT
WSCF

Matrix: WATER

Group #: WSCF20081412
Department: Inorganic
Sampled: 07/11/08
Received: 07/11/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Anions by Ion Chromatography											
Fluoride	16984-48-8	LA-533-410	DU	< 0.210	mg/L			10.00	0.21		07/15/08
Chloride	16887-00-6	LA-533-410	D	223	mg/L			20.00	2.2		07/15/08
Nitrogen in Nitrite	NO2-N	LA-533-410	DU	< 0.0990	mg/L			10.00	0.099		07/15/08
Nitrogen in Nitrate	NO3-N	LA-533-410	DU	< 0.360	mg/L			10.00	0.36		07/15/08
Phosphate (P) by IC	PO4-P	LA-533-410	D	236	mg/L			20.00	0.64		07/15/08
Sulfate	14808-79-8	LA-533-410	DU	< 0.770	mg/L			10.00	0.77		07/15/08
ICP Metals Analysis, Grd H20 P Prep											07/28/08
ICP Metals Analysis, Grd H20 P											
Aluminum	7429-90-5	LA-505-411	DU	< 260	ug/L			5.00	2.6e+02		08/11/08
Iron	7439-89-6	LA-505-411	D	1.37e+03	ug/L			5.00	1.2e+02		08/11/08
Magnesium	7439-95-4	LA-505-411	D	2.22e+04	ug/L			5.00	2.5e+02		08/11/08
Manganese	7439-96-5	LA-505-411	D	1.32e+03	ug/L			5.00	20		08/11/08
Nickel	7440-02-0	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/11/08
Potassium	7440-09-7	LA-505-411	D	6.82e+03	ug/L			5.00	8.5e+02		08/11/08
Silver	7440-22-4	LA-505-411	DU	< 25.0	ug/L			5.00	25		08/11/08
Sodium	7440-23-5	LA-505-411	DX	1.00e+06	ug/L			5.00	2.6e+02		08/11/08
Antimony	7440-36-0	LA-505-411	DU	< 280	ug/L			5.00	2.8e+02		08/11/08
Barium	7440-39-3	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/11/08
Cadmium	7440-43-9	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/11/08
Chromium	7440-47-3	LA-505-411	DU	< 65.0	ug/L			5.00	65		08/11/08
Cobalt	7440-48-4	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/11/08
Copper	7440-50-8	LA-505-411	DU	< 30.0	ug/L			5.00	30		08/11/08
Vanadium	7440-62-2	LA-505-411	DU	< 60.0	ug/L			5.00	60		08/11/08
Zinc	7440-66-6	LA-505-411	DU	< 45.0	ug/L			5.00	45		08/11/08

MDL=Minimum Detection Limit

RQ=Result Qualifier

TP Err=Total Propagated Error

DF=Dilution Factor

* - Indicates results that have NOT been validated;

+ - Indicates more than six qualifier symbols

Report WGPP/ver. 5.2

Groundwater Remediation Program

B - The analyte < the RDL but > = the IDL/MDL (inorg)

D - Analyte was identified at a secondary dilution factor(inorg)

U - Analyzed for but not detected above limiting criteria.

D - Analyte was identified at a secondary dilution factor

U - Analyzed for but not detected above limiting criteria(inorg)

X - Other flags/notes described in the comments/narrative(inorg)

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR02447
Client ID: B1W7V9

TRENT
 WSCF

Matrix: WATER

Group #: WSCF20081412
Department: Inorganic
Sampled: 07/11/08
Received: 07/11/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Calcium	7440-70-2	LA-505-411	D	3.63e + 04	ug/L			5.00	3.6e + 02		08/11/08
Lead	7439-92-1	LA-505-411	DU	< 225	ug/L			5.00	2.2e + 02		08/11/08
Molybdenum	7439-98-7	LA-505-411	DU	< 25.0	ug/L			5.00	25		08/11/08
Strontium	7440-24-6	LA-505-411	D	155	ug/L			5.00	20		08/11/08
Arsenic	7440-38-2	LA-505-411	DU	< 390	ug/L			5.00	3.9e + 02		08/11/08

MDL=Minimum Detection Limit

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Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR02448
Client ID: B1W7W0

TRENT
WSCF

Matrix: WATER

Group #: WSCF20081412
Department: Inorganic
Sampled: 07/11/08
Received: 07/11/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Anions by Ion Chromatography											
Fluoride	18984-48-8	LA-533-410	DU	< 0.210	mg/L			10.00	0.21		07/15/08
Chloride	16887-00-6	LA-533-410	D	262	mg/L			51.00	5.6		07/15/08
Nitrogen in Nitrite	NO2-N	LA-533-410	DU	< 0.0990	mg/L			10.00	0.099		07/15/08
Nitrogen in Nitrate	NO3-N	LA-533-410	DU	< 0.360	mg/L			10.00	0.36		07/15/08
Phosphate (P) by IC	PO4-P	LA-533-410	D	528	mg/L			51.00	1.6		07/15/08
Sulfate	14808-79-8	LA-533-410	DU	< 0.770	mg/L			10.00	0.77		07/15/08
ICP Metals Analysis, Grd H2O P Prep											07/28/08
ICP Metals Analysis, Grd H2O P											
Aluminum	7429-90-5	LA-505-411	DU	< 260	ug/L			5.00	2.6e+02		08/11/08
Iron	7439-89-6	LA-505-411	D	1.06e+03	ug/L			5.00	1.2e+02		08/11/08
Magnesium	7439-95-4	LA-505-411	D	8.72e+03	ug/L			5.00	2.5e+02		08/11/08
Manganese	7439-96-5	LA-505-411	D	807	ug/L			5.00	20		08/11/08
Nickel	7440-02-0	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/11/08
Potassium	7440-09-7	LA-505-411	D	6.87e+03	ug/L			5.00	8.5e+02		08/11/08
Silver	7440-22-4	LA-505-411	BD	38.0	ug/L			5.00	25		08/11/08
Sodium	7440-23-5	LA-505-411	DX	1.62e+06	ug/L			5.00	2.6e+02		08/11/08
Antimony	7440-36-0	LA-505-411	DU	< 280	ug/L			5.00	2.8e+02		08/11/08
Barium	7440-39-3	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/11/08
Cadmium	7440-43-9	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/11/08
Chromium	7440-47-3	LA-505-411	DU	< 65.0	ug/L			5.00	65		08/11/08
Cobalt	7440-48-4	LA-505-411	DU	< 20.0	ug/L			5.00	20		08/11/08
Copper	7440-50-8	LA-505-411	DU	< 30.0	ug/L			5.00	30		08/11/08
Vanadium	7440-62-2	LA-505-411	DU	< 60.0	ug/L			5.00	60		08/11/08
Zinc	7440-66-6	LA-505-411	DU	< 45.0	ug/L			5.00	45		08/11/08

MDL=Minimum Detection Limit

RQ=Result Qualifier

TP Err=Total Propagated Error

DF=Dilution Factor

* - Indicates results that have NOT been validated;

+ - Indicates more than six qualifier symbols

Report WGPP/ver. 5.2

Groundwater Remediation Program

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U - Analyzed for but not detected above limiting criteria(inorg)

X - Other flags/notes described in the comments/narrative(inorg)

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR02448
Client ID: B1W7W0

TRENT
WSCF

Matrix: WATER

Group #: WSCF20081412
Department: Inorganic
Sampled: 07/11/08
Received: 07/11/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Calcium	7440-70-2	LA-505-411	D	1.34e+04	ug/L			5.00	3.6e+02		08/11/08
Lead	7439-92-1	LA-505-411	DU	< 225	ug/L			5.00	2.2e+02		08/11/08
Molybdenum	7439-98-7	LA-505-411	DU	< 25.0	ug/L			5.00	25		08/11/08
Strontium	7440-24-6	LA-505-411	BD	91.1	ug/L			5.00	20		08/11/08
Arsenic	7440-38-2	LA-505-411	DU	< 390	ug/L			5.00	3.9e+02		08/11/08

MDL=Minimum Detection Limit

RQ=Result Qualifier

TP Err=Total Propagated Error

DF=Dilution Factor

* - Indicates results that have NOT been validated;

B - The analyte < the RDL but > = the IDL/MDL (inorg)

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Report WGPP/ver. 5.2

Groundwater Remediation Program

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WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20081412
Matrix: WATER
Test: Anions by Ion Chromatography

Sample Date: 07/10/08
Receive Date: 07/10/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08GR02420 BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Chloride	16887-00-6	2.9436		RPD			1.031	20.000		07/14/08
DUP	Fluoride	16984-48-8	<0.21		RPD			n/a	20.000	U	07/14/08
DUP	Nitrogen in Nitrite	NO2-N	<9.9e-2		RPD			n/a	20.000	U	07/14/08
DUP	Nitrogen in Nitrate	NO3-N	<0.36		RPD			n/a	20.000	U	07/14/08
DUP	Phosphate (P) by IC	PO4-P	2.8093		RPD			4.827	20.000		07/14/08
DUP	Sulfate	14808-79-8	19.8547		RPD			1.586	20.000		07/14/08
MS	Chloride	16887-00-6	0.90401	90.855	% Recov	80.000	120.000				07/14/08
MS	Fluoride	16984-48-8	0.50316	102.061	% Recov	80.000	120.000				07/14/08
MS	Nitrogen in Nitrite	NO2-N	0.45487	92.453	% Recov	80.000	120.000				07/14/08
MS	Nitrogen in Nitrate	NO3-N	0.42544	95.390	% Recov	80.000	120.000				07/14/08
MS	Phosphate (P) by IC	PO4-P	0.93083	97.265	% Recov	80.000	120.000				07/14/08
MS	Sulfate	14808-79-8	1.90013	96.945	% Recov	80.000	120.000				07/14/08
MSD	Chloride	16887-00-6	0.8972	90.171	% Recov	80.000	120.000				07/14/08
MSD	Fluoride	16984-48-8	0.50759	102.959	% Recov	80.000	120.000				07/14/08
MSD	Nitrogen in Nitrite	NO2-N	0.46147	93.795	% Recov	80.000	120.000				07/14/08
MSD	Nitrogen in Nitrate	NO3-N	0.43077	96.585	% Recov	80.000	120.000				07/14/08
MSD	Phosphate (P) by IC	PO4-P	0.92608	96.769	% Recov	80.000	120.000				07/14/08
MSD	Sulfate	14808-79-8	1.8129	92.495	% Recov	80.000	120.000				07/14/08
SPK-RPD	Chloride	16887-00-6	90.171		RPD			0.756	20.000		07/14/08
SPK-RPD	Fluoride	16984-48-8	102.959		RPD			0.876	20.000		07/14/08
SPK-RPD	Nitrogen in Nitrite	NO2-N	93.795		RPD			1.441	20.000		07/14/08
SPK-RPD	Nitrogen in Nitrate	NO3-N	96.585		RPD			1.245	20.000		07/14/08
SPK-RPD	Phosphate (P) by IC	PO4-P	96.769		RPD			0.511	20.000		07/14/08
SPK-RPD	Sulfate	14808-79-8	92.495		RPD			4.698	20.000		07/14/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20081412
Matrix: WATER
Test: Anions by Ion Chromatography

Sample Date: 07/10/08
Receive Date: 07/10/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08GR02422 BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Chloride	16887-00-6	<1.1		RPD			n/a	20.000	U	07/14/08
DUP	Fluoride	16984-48-8	<0.21		RPD			n/a	20.000	U	07/14/08
DUP	Nitrogen in Nitrite	NO2-N	<9.9e-2		RPD			n/a	20.000	U	07/14/08
DUP	Nitrogen in Nitrate	NO3-N	<0.36		RPD			n/a	20.000	U	07/14/08
DUP	Phosphate (P) by IC	PO4-P	0.3412		RPD			n/a	20.000		07/14/08
DUP	Sulfate	14808-79-8	5.8749		RPD			2.142	20.000		07/14/08
MS	Chloride	16887-00-6	0.99336	99.835	% Recov	80.000	120.000				07/14/08
MS	Fluoride	16984-48-8	0.45714	92.726	% Recov	80.000	120.000				07/14/08
MS	Nitrogen in Nitrite	NO2-N	0.45127	91.722	% Recov	80.000	120.000				07/14/08
MS	Nitrogen in Nitrate	NO3-N	0.43101	96.639	% Recov	80.000	120.000				07/14/08
MS	Phosphate (P) by IC	PO4-P	0.91059	95.150	% Recov	80.000	120.000				07/14/08
MS	Sulfate	14808-79-8	1.77703	90.665	% Recov	80.000	120.000				07/14/08
MSD	Chloride	16887-00-6	1.0063	101.136	% Recov	80.000	120.000				07/14/08
MSD	Fluoride	16984-48-8	0.45699	92.696	% Recov	80.000	120.000				07/14/08
MSD	Nitrogen in Nitrite	NO2-N	0.45982	93.459	% Recov	80.000	120.000				07/14/08
MSD	Nitrogen in Nitrate	NO3-N	0.43215	96.895	% Recov	80.000	120.000				07/14/08
MSD	Phosphate (P) by IC	PO4-P	0.91567	95.681	% Recov	80.000	120.000				07/14/08
MSD	Sulfate	14808-79-8	1.79501	91.582	% Recov	80.000	120.000				07/14/08
SPK-RPD	Chloride	16887-00-6	101.136		RPD			1.295	20.000		07/14/08
SPK-RPD	Fluoride	16984-48-8	92.696		RPD			0.032	20.000		07/14/08
SPK-RPD	Nitrogen in Nitrite	NO2-N	93.459		RPD			1.876	20.000		07/14/08
SPK-RPD	Nitrogen in Nitrate	NO3-N	96.895		RPD			0.265	20.000		07/14/08
SPK-RPD	Phosphate (P) by IC	PO4-P	95.681		RPD			0.557	20.000		07/14/08
SPK-RPD	Sulfate	14808-79-8	91.582		RPD			1.006	20.000		07/14/08
BATCH QC											
BLANK	Chloride	16887-00-6	<0.11	n/a	mg/L	0.000	0.030			U	07/14/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20081412
Matrix: WATER
Test: Anions by Ion Chromatography

Sample Date:
Receive Date:

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
BLANK	Chloride	16887-00-6	<0.11	n/a	mg/L	0.000	0.030			U	07/14/08
BLANK	Chloride	16887-00-6	<0.11	n/a	mg/L	0.000	0.030			U	07/14/08
BLANK	Fluoride	16984-48-8	<2.1e-2	n/a	mg/L	0.000	0.030			U	07/14/08
BLANK	Fluoride	16984-48-8	<2.1e-2	n/a	mg/L	0.000	0.030			U	07/14/08
BLANK	Fluoride	16984-48-8	<2.1e-2	n/a	mg/L	0.000	0.030			U	07/14/08
BLANK	Nitrogen in Nitrite	NO2-N	<9.9e-3	n/a	mg/L	0.000	0.020			U	07/14/08
BLANK	Nitrogen in Nitrite	NO2-N	<9.9e-3	n/a	mg/L	0.000	0.020			U	07/14/08
BLANK	Nitrogen in Nitrite	NO2-N	<9.9e-3	n/a	mg/L	0.000	0.020			U	07/14/08
BLANK	Nitrogen in Nitrate	NO3-N	<3.6e-2	n/a	mg/L	0.000	0.040			U	07/14/08
BLANK	Nitrogen in Nitrate	NO3-N	<3.6e-2	n/a	mg/L	0.000	0.040			U	07/14/08
BLANK	Nitrogen in Nitrate	NO3-N	<3.6e-2	n/a	mg/L	0.000	0.040			U	07/14/08
BLANK	Phosphate (P) by IC	PO4-P	<3.2e-2	n/a	mg/L	0.000	0.200			U	07/14/08
BLANK	Phosphate (P) by IC	PO4-P	<3.2e-2	n/a	mg/L	0.000	0.200			U	07/14/08
BLANK	Phosphate (P) by IC	PO4-P	<3.2e-2	n/a	mg/L	0.000	0.200			U	07/14/08
BLANK	Sulfate	14808-79-8	<7.7e-2	n/a	mg/L	0.000	0.200			U	07/14/08
BLANK	Sulfate	14808-79-8	<7.7e-2	n/a	mg/L	0.000	0.200			U	07/14/08
BLANK	Sulfate	14808-79-8	<7.7e-2	n/a	mg/L	0.000	0.200			U	07/14/08
LCS	Chloride	16887-00-6	193.1927	96.116	% Recov	80.000	120.000				07/14/08
LCS	Chloride	16887-00-6	193.7647	96.400	% Recov	80.000	120.000				07/14/08
LCS	Fluoride	16984-48-8	105.4554	105.879	% Recov	80.000	120.000				07/14/08
LCS	Fluoride	16984-48-8	107.7094	108.142	% Recov	80.000	120.000				07/14/08
LCS	Nitrogen in Nitrite	NO2-N	97.9984	98.590	% Recov	80.000	120.000				07/14/08
LCS	Nitrogen in Nitrite	NO2-N	98.5292	99.124	% Recov	80.000	120.000				07/14/08
LCS	Nitrogen in Nitrate	NO3-N	90.3705	100.300	% Recov	80.000	120.000				07/14/08
LCS	Nitrogen in Nitrate	NO3-N	91.1893	101.209	% Recov	80.000	120.000				07/14/08
LCS	Phosphate (P) by IC	PO4-P	190.4959	98.498	% Recov	80.000	120.000				07/14/08
LCS	Phosphate (P) by IC	PO4-P	193.8679	100.242	% Recov	80.000	120.000				07/14/08
LCS	Sulfate	14808-79-8	377.419	95.308	% Recov	80.000	120.000				07/14/08
LCS	Sulfate	14808-79-8	381.9839	96.461	% Recov	80.000	120.000				07/14/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20081412
Matrix: WATER
Test: Anions by Ion Chromatography

Sample Date: 07/04/08
Receive Date: 07/07/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08GR02218 BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Chloride	16887-00-6	<1.1		RPD			n/a	20.000	U	07/15/08
DUP	Fluoride	16984-48-8	<0.21		RPD			n/a	20.000	U	07/15/08
DUP	Nitrogen in Nitrite	NO2-N	<9.9e-2		RPD			n/a	20.000	U	07/15/08
DUP	Nitrogen in Nitrate	NO3-N	<0.36		RPD			n/a	20.000	U	07/15/08
DUP	Phosphate (P) by IC	PO4-P	<0.32		RPD			n/a	20.000	U	07/15/08
DUP	Sulfate	14808-79-8	6.3416		RPD			5.934	20.000		07/15/08
MS	Chloride	16887-00-6	1.0589	106.422	% Recov	80.000	120.000				07/15/08
MS	Fluoride	16984-48-8	0.46344	94.004	% Recov	80.000	120.000				07/15/08
MS	Nitrogen in Nitrite	NO2-N	0.49436	100.480	% Recov	80.000	120.000				07/15/08
MS	Nitrogen in Nitrate	NO3-N	0.49185	110.280	% Recov	80.000	120.000				07/15/08
MS	Phosphate (P) by IC	PO4-P	0.8215	85.841	% Recov	80.000	120.000				07/15/08
MS	Sulfate	14808-79-8	1.89271	96.567	% Recov	80.000	120.000				07/15/08
MSD	Chloride	16887-00-6	1.07133	107.671	% Recov	80.000	120.000				07/15/08
MSD	Fluoride	16984-48-8	0.47277	95.897	% Recov	80.000	120.000				07/15/08
MSD	Nitrogen in Nitrite	NO2-N	0.50775	103.201	% Recov	80.000	120.000				07/15/08
MSD	Nitrogen in Nitrate	NO3-N	0.47047	105.487	% Recov	80.000	120.000				07/15/08
MSD	Phosphate (P) by IC	PO4-P	0.83727	87.489	% Recov	80.000	120.000				07/15/08
MSD	Sulfate	14808-79-8	1.9525	99.617	% Recov	80.000	120.000				07/15/08
SPK-RPD	Chloride	16887-00-6	107.671		RPD			1.167	20.000		07/15/08
SPK-RPD	Fluoride	16984-48-8	95.897		RPD			1.994	20.000		07/15/08
SPK-RPD	Nitrogen in Nitrite	NO2-N	103.201		RPD			2.672	20.000		07/15/08
SPK-RPD	Nitrogen in Nitrate	NO3-N	105.487		RPD			4.443	20.000		07/15/08
SPK-RPD	Phosphate (P) by IC	PO4-P	87.489		RPD			1.902	20.000		07/15/08
SPK-RPD	Sulfate	14808-79-8	99.617		RPD			3.109	20.000		07/15/08

Lab ID: W08GR02441
BATCH QC ASSOCIATED WITH SAMPLE

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20081412
Matrix: WATER
Test: Anions by Ion Chromatography

Sample Date: 07/11/08
Receive Date: 07/11/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
DUP	Chloride	16887-00-6	49.7353		RPD			0.708	20.000		07/15/08
DUP	Fluoride	16984-48-8	<0.21		RPD			n/a	20.000	U	07/15/08
DUP	Nitrogen in Nitrite	NO2-N	<9.9e-2		RPD			n/a	20.000	U	07/15/08
DUP	Nitrogen in Nitrate	NO3-N	<0.36		RPD			n/a	20.000	U	07/15/08
DUP	Phosphate (P) by IC	PO4-P	6.363		RPD			6.876	20.000		07/15/08
DUP	Sulfate	14808-79-8	4.4166		RPD			2.473	20.000		07/15/08
MS	Chloride	16887-00-6	0.97199	97.687	% Recov	80.000	120.000				07/15/08
MS	Fluoride	16984-48-8	0.40992	83.148	% Recov	80.000	120.000				07/15/08
MS	Nitrogen in Nitrite	NO2-N	0.48033	97.628	% Recov	80.000	120.000				07/15/08
MS	Nitrogen in Nitrate	NO3-N	0.45741	102.558	% Recov	80.000	120.000				07/15/08
MS	Phosphate (P) by IC	PO4-P	0.92385	96.536	% Recov	80.000	120.000				07/15/08
MS	Sulfate	14808-79-8	1.91071	97.485	% Recov	80.000	120.000				07/15/08
MSD	Chloride	16887-00-6	0.96903	97.390	% Recov	80.000	120.000				07/15/08
MSD	Fluoride	16984-48-8	0.45502	92.296	% Recov	80.000	120.000				07/15/08
MSD	Nitrogen in Nitrite	NO2-N	0.48344	98.260	% Recov	80.000	120.000				07/15/08
MSD	Nitrogen in Nitrate	NO3-N	0.45431	101.863	% Recov	80.000	120.000				07/15/08
MSD	Phosphate (P) by IC	PO4-P	0.89114	93.118	% Recov	80.000	120.000				07/15/08
MSD	Sulfate	14808-79-8	1.96528	100.269	% Recov	80.000	120.000				07/15/08
SPK-RPD	Chloride	16887-00-6	97.390		RPD			0.304	20.000		07/15/08
SPK-RPD	Fluoride	16984-48-8	92.296		RPD			10.428	20.000		07/15/08
SPK-RPD	Nitrogen in Nitrite	NO2-N	98.260		RPD			0.645	20.000		07/15/08
SPK-RPD	Nitrogen in Nitrate	NO3-N	101.863		RPD			0.680	20.000		07/15/08
SPK-RPD	Phosphate (P) by IC	PO4-P	93.118		RPD			3.604	20.000		07/15/08
SPK-RPD	Sulfate	14808-79-8	100.269		RPD			2.816	20.000		07/15/08
BATCH QC											
BLANK	Chloride	16887-00-6	<0.11	n/a	mg/L	0.000	0.030			U	07/15/08
BLANK	Chloride	16887-00-6	<0.11	n/a	mg/L	0.000	0.030			U	07/15/08
BLANK	Chloride	16887-00-6	<0.11	n/a	mg/L	0.000	0.030			U	07/15/08
BLANK	Fluoride	16984-48-8	<2.1e-2	n/a	mg/L	0.000	0.030			U	07/15/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20081412
Matrix: WATER
Test: Anions by Ion Chromatography

Sample Date:
Receive Date:

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
BLANK	Fluoride	16984-48-8	< 2.1e-2	n/a	mg/L	0.000	0.030			U	07/15/08
BLANK	Fluoride	16984-48-8	< 2.1e-2	n/a	mg/L	0.000	0.030			U	07/15/08
BLANK	Nitrogen in Nitrite	NO2-N	< 9.9e-3	n/a	mg/L	0.000	0.020			U	07/15/08
BLANK	Nitrogen in Nitrite	NO2-N	< 9.9e-3	n/a	mg/L	0.000	0.020			U	07/15/08
BLANK	Nitrogen in Nitrite	NO2-N	< 9.9e-3	n/a	mg/L	0.000	0.020			U	07/15/08
BLANK	Nitrogen in Nitrate	NO3-N	< 3.6e-2	n/a	mg/L	0.000	0.040			U	07/15/08
BLANK	Nitrogen in Nitrate	NO3-N	< 3.6e-2	n/a	mg/L	0.000	0.040			U	07/15/08
BLANK	Nitrogen in Nitrate	NO3-N	< 3.6e-2	n/a	mg/L	0.000	0.040			U	07/15/08
BLANK	Phosphate (P) by IC	PO4-P	< 3.2e-2	n/a	mg/L	0.000	0.200			U	07/15/08
BLANK	Phosphate (P) by IC	PO4-P	< 3.2e-2	n/a	mg/L	0.000	0.200			U	07/15/08
BLANK	Phosphate (P) by IC	PO4-P	< 3.2e-2	n/a	mg/L	0.000	0.200			U	07/15/08
BLANK	Sulfate	14808-79-8	< 7.7e-2	n/a	mg/L	0.000	0.200			U	07/15/08
BLANK	Sulfate	14808-79-8	< 7.7e-2	n/a	mg/L	0.000	0.200			U	07/15/08
BLANK	Sulfate	14808-79-8	< 7.7e-2	n/a	mg/L	0.000	0.200			U	07/15/08
LCS	Chloride	16887-00-6	197.8285	98.422	% Recov	80.000	120.000				07/15/08
LCS	Chloride	16887-00-6	196.3577	97.690	% Recov	80.000	120.000				07/15/08
LCS	Fluoride	16984-48-8	101.8963	102.306	% Recov	80.000	120.000				07/15/08
LCS	Fluoride	16984-48-8	101.3163	101.723	% Recov	80.000	120.000				07/15/08
LCS	Nitrogen in Nitrite	NO2-N	101.9414	102.557	% Recov	80.000	120.000				07/15/08
LCS	Nitrogen in Nitrite	NO2-N	101.0344	101.644	% Recov	80.000	120.000				07/15/08
LCS	Nitrogen in Nitrate	NO3-N	91.7886	101.874	% Recov	80.000	120.000				07/15/08
LCS	Nitrogen in Nitrate	NO3-N	92.1252	102.248	% Recov	80.000	120.000				07/15/08
LCS	Phosphate (P) by IC	PO4-P	188.9659	97.707	% Recov	80.000	120.000				07/15/08
LCS	Phosphate (P) by IC	PO4-P	186.3993	96.380	% Recov	80.000	120.000				07/15/08
LCS	Sulfate	14808-79-8	394.6104	99.649	% Recov	80.000	120.000				07/15/08
LCS	Sulfate	14808-79-8	399.5261	100.890	% Recov	80.000	120.000				07/15/08

Lab ID: W08GR02442
BATCH QC ASSOCIATED WITH SAMPLE

DUP	Chloride	16887-00-6	29.4058		RPD	0.645	20.000	07/15/08
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WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20081412
Matrix: WATER
Test: Anions by Ion Chromatography

Sample Date: 07/11/08
Receive Date: 07/11/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
DUP	Fluoride	16984-48-8	<0.21		RPD			n/a	20.000	U	07/15/08
DUP	Nitrogen in Nitrite	NO2-N	0.1609		RPD			38.939	20.000		07/15/08
DUP	Nitrogen in Nitrate	NO3-N	0.4848		RPD			1.189	20.000		07/15/08
DUP	Phosphate (P) by IC	PO4-P	49.3633		RPD			2.060	20.000		07/15/08
DUP	Sulfate	14808-79-8	7.9815		RPD			5.163	20.000		07/15/08
MS	Chloride	16887-00-6	0.90506	90.961	% Recov	80.000	120.000				07/15/08
MS	Fluoride	16984-48-8	0.43496	88.227	% Recov	80.000	120.000				07/15/08
MS	Nitrogen in Nitrite	NO2-N	0.44986	91.435	% Recov	80.000	120.000				07/15/08
MS	Nitrogen in Nitrate	NO3-N	0.43918	98.471	% Recov	80.000	120.000				07/15/08
MS	Phosphate (P) by IC	PO4-P	0.83547	87.301	% Recov	80.000	120.000				07/15/08
MS	Sulfate	14808-79-8	1.91319	97.612	% Recov	80.000	120.000				07/15/08
MSD	Chloride	16887-00-6	0.93546	94.016	% Recov	80.000	120.000				07/15/08
MSD	Fluoride	16984-48-8	0.44551	90.367	% Recov	80.000	120.000				07/15/08
MSD	Nitrogen in Nitrite	NO2-N	0.49052	99.699	% Recov	80.000	120.000				07/15/08
MSD	Nitrogen in Nitrate	NO3-N	0.43966	98.578	% Recov	80.000	120.000				07/15/08
MSD	Phosphate (P) by IC	PO4-P	0.80745	84.373	% Recov	80.000	120.000				07/15/08
MSD	Sulfate	14808-79-8	1.9344	98.694	% Recov	80.000	120.000				07/15/08
SPK-RPD	Chloride	16887-00-6	94.016		RPD			3.303	20.000		07/15/08
SPK-RPD	Fluoride	16984-48-8	90.367		RPD			2.396	20.000		07/15/08
SPK-RPD	Nitrogen in Nitrite	NO2-N	99.699		RPD			8.647	20.000		07/15/08
SPK-RPD	Nitrogen in Nitrate	NO3-N	98.578		RPD			0.109	20.000		07/15/08
SPK-RPD	Phosphate (P) by IC	PO4-P	84.373		RPD			3.411	20.000		07/15/08
SPK-RPD	Sulfate	14808-79-8	98.694		RPD			1.102	20.000		07/15/08

Lab ID: W08GR02453
BATCH QC ASSOCIATED WITH SAMPLE

DUP	Chloride	16887-00-6	12.971		RPD			2.091	20.000		07/15/08
DUP	Fluoride	16984-48-8	<0.21		RPD			n/a	20.000	U	07/15/08
DUP	Nitrogen in Nitrite	NO2-N	<9.9e-2		RPD			n/a	20.000	U	07/15/08
DUP	Nitrogen in Nitrate	NO3-N	<0.36		RPD			n/a	20.000	U	07/15/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20081412
Matrix: WATER
Test: Anions by Ion Chromatography

Sample Date: 07/11/08
Receive Date: 07/11/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
DUP	Phosphate (P) by IC	PO4-P	17.1088		RPD			2.717	20.000		07/15/08
DUP	Sulfate	14808-79-8	12.2729		RPD			0.286	20.000		07/15/08
MS	Chloride	16887-00-6	0.95332	95.811	% Recov	80.000	120.000				07/15/08
MS	Fluoride	16984-48-8	0.43882	89.010	% Recov	80.000	120.000				07/15/08
MS	Nitrogen in Nitrite	NO2-N	0.48157	97.880	% Recov	80.000	120.000				07/15/08
MS	Nitrogen in Nitrate	NO3-N	0.44061	98.791	% Recov	80.000	120.000				07/15/08
MS	Phosphate (P) by IC	PO4-P	0.92187	96.329	% Recov	80.000	120.000				07/15/08
MS	Sulfate	14808-79-8	1.94228	99.096	% Recov	80.000	120.000				07/15/08
MSD	Chloride	16887-00-6	0.95459	95.939	% Recov	80.000	120.000				07/15/08
MSD	Fluoride	16984-48-8	0.4575	92.799	% Recov	80.000	120.000				07/15/08
MSD	Nitrogen in Nitrite	NO2-N	0.48228	98.024	% Recov	80.000	120.000				07/15/08
MSD	Nitrogen in Nitrate	NO3-N	0.44193	99.087	% Recov	80.000	120.000				07/15/08
MSD	Phosphate (P) by IC	PO4-P	0.89638	93.666	% Recov	80.000	120.000				07/15/08
MSD	Sulfate	14808-79-8	1.96337	100.172	% Recov	80.000	120.000				07/15/08
SPK-RPD	Chloride	16887-00-6	95.939		RPD			0.134	20.000		07/15/08
SPK-RPD	Fluoride	16984-48-8	92.799		RPD			4.168	20.000		07/15/08
SPK-RPD	Nitrogen in Nitrite	NO2-N	98.024		RPD			0.147	20.000		07/15/08
SPK-RPD	Nitrogen in Nitrate	NO3-N	99.087		RPD			0.299	20.000		07/15/08
SPK-RPD	Phosphate (P) by IC	PO4-P	93.666		RPD			2.803	20.000		07/15/08
SPK-RPD	Sulfate	14808-79-8	100.172		RPD			1.080	20.000		07/15/08

BATCH QC

BLANK	Chloride	16887-00-6	<0.11	n/a	mg/L	0.000	0.030			U	07/15/08
BLANK	Chloride	16887-00-6	<0.11	n/a	mg/L	0.000	0.030			U	07/15/08
BLANK	Chloride	16887-00-6	<0.11	n/a	mg/L	0.000	0.030			U	07/15/08
BLANK	Fluoride	16984-48-8	<2.1e-2	n/a	mg/L	0.000	0.030			U	07/15/08
BLANK	Fluoride	16984-48-8	<2.1e-2	n/a	mg/L	0.000	0.030			U	07/15/08
BLANK	Fluoride	16984-48-8	<2.1e-2	n/a	mg/L	0.000	0.030			U	07/15/08
BLANK	Nitrogen in Nitrite	NO2-N	<9.9e-3	n/a	mg/L	0.000	0.020			U	07/15/08
BLANK	Nitrogen in Nitrite	NO2-N	<9.9e-3	n/a	mg/L	0.000	0.020			U	07/15/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20081412
Matrix: WATER
Test: Anions by Ion Chromatography

Sample Date:
Receive Date:

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
BLANK	Nitrogen in Nitrite	NO2-N	<9.9e-3	n/a	mg/L	0.000	0.020			U	07/15/08
BLANK	Nitrogen in Nitrate	NO3-N	<3.6e-2	n/a	mg/L	0.000	0.040			U	07/15/08
BLANK	Nitrogen in Nitrate	NO3-N	<3.6e-2	n/a	mg/L	0.000	0.040			U	07/15/08
BLANK	Nitrogen in Nitrate	NO3-N	<3.6e-2	n/a	mg/L	0.000	0.040			U	07/15/08
BLANK	Phosphate (P) by IC	PO4-P	<3.2e-2	n/a	mg/L	0.000	0.200			U	07/15/08
BLANK	Phosphate (P) by IC	PO4-P	<3.2e-2	n/a	mg/L	0.000	0.200			U	07/15/08
BLANK	Phosphate (P) by IC	PO4-P	<3.2e-2	n/a	mg/L	0.000	0.200			U	07/15/08
BLANK	Sulfate	14808-79-8	<7.7e-2	n/a	mg/L	0.000	0.200			U	07/15/08
BLANK	Sulfate	14808-79-8	<7.7e-2	n/a	mg/L	0.000	0.200			U	07/15/08
BLANK	Sulfate	14808-79-8	<7.7e-2	n/a	mg/L	0.000	0.200			U	07/15/08
LCS	Chloride	16887-00-6	198.966	98.988	% Recov	80.000	120.000				07/15/08
LCS	Chloride	16887-00-6	199.2368	99.123	% Recov	80.000	120.000				07/15/08
LCS	Fluoride	16984-48-8	107.4621	107.894	% Recov	80.000	120.000				07/15/08
LCS	Fluoride	16984-48-8	108.4142	108.850	% Recov	80.000	120.000				07/15/08
LCS	Nitrogen in Nitrite	NO2-N	100.0675	100.672	% Recov	80.000	120.000				07/15/08
LCS	Nitrogen in Nitrite	NO2-N	100.7202	101.328	% Recov	80.000	120.000				07/15/08
LCS	Nitrogen in Nitrate	NO3-N	92.9136	103.123	% Recov	80.000	120.000				07/15/08
LCS	Nitrogen in Nitrate	NO3-N	92.5363	102.704	% Recov	80.000	120.000				07/15/08
LCS	Phosphate (P) by IC	PO4-P	197.7113	102.229	% Recov	80.000	120.000				07/15/08
LCS	Phosphate (P) by IC	PO4-P	193.7227	100.167	% Recov	80.000	120.000				07/15/08
LCS	Sulfate	14808-79-8	400.6663	101.178	% Recov	80.000	120.000				07/15/08
LCS	Sulfate	14808-79-8	397.1863	100.300	% Recov	80.000	120.000				07/15/08

Lab ID: W08GR02211
BATCH QC ASSOCIATED WITH SAMPLE

DUP	Phosphate (P) by IC	PO4-P	14.8416		RPD			0.592	20.000		07/16/08
MS	Phosphate (P) by IC	PO4-P	0.83843	87.610	% Recov	80.000	120.000				07/16/08
MSD	Phosphate (P) by IC	PO4-P	0.90592	94.662	% Recov	80.000	120.000				07/16/08
SPK-RPD	Phosphate (P) by IC	PO4-P	94.662		RPD			7.738	20.000		07/16/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20081412
Matrix: WATER
Test: Anions by Ion Chromatography

Sample Date: 07/11/08
Receive Date: 07/11/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08GR02462											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Phosphate (P) by IC	PO4-P	21.3576		RPD			2.040	20.000		07/16/08
MS	Phosphate (P) by IC	PO4-P	1.04713	109.418	% Recov	80.000	120.000				07/16/08
MSD	Phosphate (P) by IC	PO4-P	0.98209	102.622	% Recov	80.000	120.000				07/16/08
SPK-RPD	Phosphate (P) by IC	PO4-P	102.622		RPD			6.410	20.000		07/16/08
BATCH QC											
BLANK	Phosphate (P) by IC	PO4-P	<3.2e-2	n/a	mg/L	0.000	0.200			U	07/16/08
BLANK	Phosphate (P) by IC	PO4-P	<3.2e-2	n/a	mg/L	0.000	0.200			U	07/16/08
BLANK	Phosphate (P) by IC	PO4-P	<3.2e-2	n/a	mg/L	0.000	0.200			U	07/16/08
LCS	Phosphate (P) by IC	PO4-P	189.2058	97.831	% Recov	80.000	120.000				07/16/08
LCS	Phosphate (P) by IC	PO4-P	186.5406	96.453	% Recov	80.000	120.000				07/16/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20081412
Matrix: WATER
Test: ICP Metals Analysis, Grd H2O P

Sample Date: 07/11/08
Receive Date: 07/11/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08GR02438 BATCH QC ASSOCIATED WITH SAMPLE											
MS	Silver	7440-22-4	4970	99.400	% Recov	75.000	125.000				08/11/08
MS	Aluminum	7429-90-5	4923	98.460	% Recov	75.000	125.000				08/11/08
MS	Arsenic	7440-38-2	5310	106.200	% Recov	75.000	125.000				08/11/08
MS	Barium	7440-39-3	2484	99.360	% Recov	75.000	125.000				08/11/08
MS	Calcium	7440-70-2	4900	98.000	% Recov	75.000	125.000				08/11/08
MS	Cadmium	7440-43-9	5162	103.240	% Recov	75.000	125.000				08/11/08
MS	Cobalt	7440-48-4	5242	104.840	% Recov	75.000	125.000				08/11/08
MS	Chromium	7440-47-3	5130	102.600	% Recov	75.000	125.000				08/11/08
MS	Copper	7440-50-8	4930	98.600	% Recov	75.000	125.000				08/11/08
MS	Iron	7439-89-6	4923.2	98.464	% Recov	75.000	125.000				08/11/08
MS	Potassium	7440-09-7	53115	106.230	% Recov	75.000	125.000				08/11/08
MS	Magnesium	7439-95-4	5143	102.860	% Recov	75.000	125.000				08/11/08
MS	Manganese	7439-96-5	5237	104.740	% Recov	75.000	125.000				08/11/08
MS	Molybdenum	7439-98-7	5000	100.000	% Recov	70.000	130.000				08/11/08
MS	Sodium	7440-23-5	54700	1094.000	% Recov	75.000	125.000				08/11/08
MS	Nickel	7440-02-0	5092	101.840	% Recov	75.000	125.000				08/11/08
MS	Lead	7439-92-1	5400	108.000	% Recov	75.000	125.000				08/11/08
MS	Antimony	7440-36-0	5247	104.940	% Recov	75.000	125.000				08/11/08
MS	Strontium	7440-24-6	2605.2	104.208	% Recov	75.000	125.000				08/11/08
MS	Vanadium	7440-62-2	5010	100.200	% Recov	75.000	125.000				08/11/08
MS	Zinc	7440-66-6	5022	100.440	% Recov	75.000	125.000				08/11/08
MSD	Silver	7440-22-4	4870	97.400	% Recov	75.000	125.000				08/11/08
MSD	Aluminum	7429-90-5	4878	97.560	% Recov	75.000	125.000				08/11/08
MSD	Arsenic	7440-38-2	5200	104.000	% Recov	75.000	125.000				08/11/08
MSD	Barium	7440-39-3	2444	97.760	% Recov	75.000	125.000				08/11/08
MSD	Calcium	7440-70-2	4150	83.000	% Recov	75.000	125.000				08/11/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20081412
Matrix: WATER
Test: ICP Metals Analysis, Grd H2O P

Sample Date: 07/11/08
Receive Date: 07/11/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
MSD	Cadmium	7440-43-9	5084	101.680	% Recov	75.000	125.000				08/11/08
MSD	Cobalt	7440-48-4	5159	103.180	% Recov	75.000	125.000				08/11/08
MSD	Chromium	7440-47-3	5059	101.180	% Recov	75.000	125.000				08/11/08
MSD	Copper	7440-50-8	4870	97.400	% Recov	75.000	125.000				08/11/08
MSD	Iron	7439-89-6	4826.2	96.524	% Recov	75.000	125.000				08/11/08
MSD	Potassium	7440-09-7	52085	104.170	% Recov	75.000	125.000				08/11/08
MSD	Magnesium	7439-95-4	4541	90.820	% Recov	75.000	125.000				08/11/08
MSD	Manganese	7439-96-5	5097	101.940	% Recov	75.000	125.000				08/11/08
MSD	Molybdenum	7439-98-7	4961	99.220	% Recov	75.000	125.000				08/11/08
MSD	Sodium	7440-23-5	18300	366.000	% Recov	75.000	125.000				08/11/08
MSD	Nickel	7440-02-0	5035	100.700	% Recov	75.000	125.000				08/11/08
MSD	Lead	7439-92-1	5280	105.600	% Recov	75.000	125.000				08/11/08
MSD	Antimony	7440-36-0	5257	105.140	% Recov	75.000	125.000				08/11/08
MSD	Strontium	7440-24-6	2559.2	102.368	% Recov	75.000	125.000				08/11/08
MSD	Vanadium	7440-62-2	4950	99.000	% Recov	75.000	125.000				08/11/08
MSD	Zinc	7440-66-6	4974	99.480	% Recov	75.000	125.000				08/11/08
SPK-RPD	Silver	7440-22-4	97.400		RPD			2.033	20.000		08/11/08
SPK-RPD	Aluminum	7429-90-5	97.560		RPD			0.918	20.000		08/11/08
SPK-RPD	Arsenic	7440-38-2	104.000		RPD			2.093	20.000		08/11/08
SPK-RPD	Barium	7440-39-3	97.760		RPD			1.623	20.000		08/11/08
SPK-RPD	Calcium	7440-70-2	83.000		RPD			16.575	20.000		08/11/08
SPK-RPD	Cadmium	7440-43-9	101.680		RPD			1.523	20.000		08/11/08
SPK-RPD	Cobalt	7440-48-4	103.180		RPD			1.596	20.000		08/11/08
SPK-RPD	Chromium	7440-47-3	101.180		RPD			1.394	20.000		08/11/08
SPK-RPD	Copper	7440-50-8	97.400		RPD			1.224	20.000		08/11/08
SPK-RPD	Iron	7439-89-6	96.524		RPD			1.990	20.000		08/11/08
SPK-RPD	Potassium	7440-09-7	104.170		RPD			1.958	20.000		08/11/08
SPK-RPD	Magnesium	7439-95-4	90.820		RPD			12.433	20.000		08/11/08
SPK-RPD	Manganese	7439-96-5	101.940		RPD			2.710	20.000		08/11/08
SPK-RPD	Molybdenum	7439-98-7	99.220		RPD			0.783	20.000		08/11/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20081412
Matrix: WATER
Test: ICP Metals Analysis, Grd H2O P

Sample Date: 07/11/08
Receive Date: 07/11/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
SPK-RPD	Sodium	7440-23-5	368.000		RPD			99.726	20.000 *		08/11/08
SPK-RPD	Nickel	7440-02-0	100.700		RPD			1.126	20.000		08/11/08
SPK-RPD	Lead	7439-92-1	105.600		RPD			2.247	20.000		08/11/08
SPK-RPD	Antimony	7440-36-0	105.140		RPD			0.190	20.000		08/11/08
SPK-RPD	Strontium	7440-24-6	102.368		RPD			1.781	20.000		08/11/08
SPK-RPD	Vanadium	7440-62-2	99.000		RPD			1.205	20.000		08/11/08
SPK-RPD	Zinc	7440-66-6	99.480		RPD			0.960	20.000		08/11/08
BATCH QC											
BLANK	Silver	7440-22-4	<5	n/a	ug/L					U	08/11/08
BLANK	Aluminum	7429-90-5	<52	n/a	ug/L					U	08/11/08
BLANK	Arsenic	7440-38-2	<78	n/a	ug/L					U	08/11/08
BLANK	Barium	7440-39-3	<4	n/a	ug/L					U	08/11/08
BLANK	Calcium	7440-70-2	<73	n/a	ug/L					U	08/11/08
BLANK	Cadmium	7440-43-9	<4	n/a	ug/L					U	08/11/08
BLANK	Cobalt	7440-48-4	<4	n/a	ug/L					U	08/11/08
BLANK	Chromium	7440-47-3	<13	n/a	ug/L					U	08/11/08
BLANK	Copper	7440-50-8	<6	n/a	ug/L					U	08/11/08
BLANK	Iron	7439-89-6	<25	n/a	ug/L					U	08/11/08
BLANK	Potassium	7440-09-7	<170	n/a	ug/L					U	08/11/08
BLANK	Magnesium	7439-95-4	<50	n/a	ug/L					U	08/11/08
BLANK	Manganese	7439-96-5	<4	n/a	ug/L					U	08/11/08
BLANK	Molybdenum	7439-98-7	<5	n/a	ug/L					U	08/11/08
BLANK	Sodium	7440-23-5	<51	n/a	ug/L					U	08/11/08
BLANK	Nickel	7440-02-0	<4	n/a	ug/L					U	08/11/08
BLANK	Lead	7439-92-1	<45	n/a	ug/L					U	08/11/08
BLANK	Antimony	7440-36-0	<56	n/a	ug/L					U	08/11/08
BLANK	Strontium	7440-24-6	<4	n/a	ug/L					U	08/11/08
BLANK	Vanadium	7440-62-2	<12	n/a	ug/L					U	08/11/08
BLANK	Zinc	7440-66-6	<9	n/a	ug/L					U	08/11/08

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Inorganic

SDG Number: WSCF20081412
Matrix: WATER
Test: ICP Metals Analysis, Grd H2O P

Sample Date:
Receive Date:

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
LCS	Silver	7440-22-4	967	96.700	% Recov	80.000	120.000				08/11/08
LCS	Aluminum	7429-90-5	995.6	99.560	% Recov	80.000	120.000				08/11/08
LCS	Arsenic	7440-38-2	1060	106.000	% Recov	80.000	120.000				08/11/08
LCS	Barium	7440-39-3	477	95.400	% Recov	80.000	120.000				08/11/08
LCS	Calcium	7440-70-2	1127	112.700	% Recov	80.000	120.000				08/11/08
LCS	Cadmium	7440-43-9	988.3	98.830	% Recov	80.000	120.000				08/11/08
LCS	Cobalt	7440-48-4	1015	101.500	% Recov	80.000	120.000				08/11/08
LCS	Chromium	7440-47-3	978.3	97.830	% Recov	80.000	120.000				08/11/08
LCS	Copper	7440-50-8	976	97.600	% Recov	80.000	120.000				08/11/08
LCS	Iron	7439-89-6	978.2	97.820	% Recov	80.000	120.000				08/11/08
LCS	Potassium	7440-09-7	10110	101.100	% Recov	80.000	120.000				08/11/08
LCS	Magnesium	7439-95-4	978.6	97.860	% Recov	80.000	120.000				08/11/08
LCS	Manganese	7439-96-5	1020	102.000	% Recov	80.000	120.000				08/11/08
LCS	Molybdenum	7439-98-7	1005	100.500	% Recov	80.000	120.000				08/11/08
LCS	Sodium	7440-23-5	1036	103.600	% Recov	80.000	120.000				08/11/08
LCS	Nickel	7440-02-0	1004	100.400	% Recov	80.000	120.000				08/11/08
LCS	Lead	7439-92-1	1050	105.000	% Recov	80.000	120.000				08/11/08
LCS	Antimony	7440-36-0	1032	103.200	% Recov	80.000	120.000				08/11/08
LCS	Strontium	7440-24-6	493.3	98.660	% Recov	80.000	120.000				08/11/08
LCS	Vanadium	7440-62-2	975	97.500	% Recov	80.000	120.000				08/11/08
LCS	Zinc	7440-66-6	949.2	94.920	% Recov	80.000	120.000				08/11/08

WSCF

ANALYTICAL COMMENT REPORT

Attention: Steve Trent
Project Number F06-027

Group #: WSCF20081412
Department: Inorganic

Sample #	Client ID	Lab Area	Test	Comment
		VALGROUP		<p>IC Anion - Sample dup RPD out of limits for nitrite in sample W08GR02442; Analyte concentration in sample below calibration range. DTS</p> <p>IC Anion - Sample hold time missed for phosphate in sample W08GR02446. Sample was re-analyzed for phosphate DTS</p> <p>W08GR02438 - W08GR02448/Gross alpha duplicate is flagged for poor RPD but the sample activity is low level. RPD does not apply to low level samples. Imh</p> <p>ICP-AES: No zirconium is present in the LCS standard. Sodium sample result exceeds spiking level by a factor of 4 so spike recoveries are not valid (X flag). Check and high standards are used to ensure sodium and calcium linearity because sample results are greater than the calibration standard. B flag used where sample < 5X MDL</p>

Lab Areas: VALGROUP - Group Validation
LOGSAMP - Login for Sample

VALTEST - Test Validation
LOGTEST - Login for Tests

TESTDATA - Test Data Entry

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WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR02438
Client ID: B1W7V0

TRENT
WSCF

Matrix: WATER

Group #: WSCF20081412
Department: Radiochemistry
Sampled: 07/11/08
Received: 07/11/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Gross Alpha/Gross Beta (AB32)											
Gross alpha	12587-48-1	LA-508-415		9.30	pCi/L	+ -6.88	pCi/L	1.00	7.6		07/21/08
Gross beta	12587-47-2	LA-508-415		550	pCi/L	+ -66.0	pCi/L	1.00	30		07/21/08

MDL=Minimum Detection Limit

RQ=Result Qualifier

TP Err=Total Propagated Error

DF=Dilution Factor

* - Indicates results that have NOT been validated;

+ - Indicates more than six qualifier symbols

B - The analyte < the RDL but > = the IDL/MDL (inorg)

D - Analyte was identified at a secondary dilution factor(inorg)

U - Analyzed for but not detected above limiting criteria.

D - Analyte was identified at a secondary dilution factor

U - Analyzed for but not detected above limiting criteria(inorg)

X - Other flags/notes described in the comments/narrative(inorg)

Report WGPP/ver. 5.2

Groundwater Remediation Program

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WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR02439
Client ID: B1W7V1

TRENT
 WSCF

Matrix: WATER

Group #: WSCF20081412
Department: Radiochemistry
Sampled: 07/11/08
Received: 07/11/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Gross Alpha/Gross Beta (AB32)											
Gross alpha	12587-46-1	LA-508-415		11.0	pCi/L	+ -7.70	pCi/L	1.00	8.1		07/21/08
Gross beta	12587-47-2	LA-508-415		310	pCi/L	+ -43.4	pCi/L	1.00	30		07/21/08

MDL=Minimum Detection Limit
RQ=Result Qualifier
TP Err=Total Propagated Error
DF=Dilution Factor

B - The analyte < the RDL but > = the IDL/MDL (inorg)
 D - Analyte was identified at a secondary dilution factor(inorg)
 U - Analyzed for but not detected above limiting criteria.

D - Analyte was identified at a secondary dilution factor
 U - Analyzed for but not detected above limiting criteria(inorg)
 X - Other flags/notes described in the comments/narrative(inorg)

* - Indicates results that have NOT been validated; + - Indicates more than six qualifier symbols

Report WGPP/ver. 5.2
 Groundwater Remediation Program

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR02440
Client ID: B1W7V2

TRENT
 WSCF

Matrix: WATER

Group #: WSCF20081412
Department: Radiochemistry
Sampled: 07/11/08
Received: 07/11/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Gross Alpha/Gross Beta (AB32)											
Gross alpha	12587-46-1	LA-508-415		45.0	pCi/L	+ -28.4	pCi/L	1.00	28		07/21/08
Gross beta	12587-47-2	LA-508-415		240	pCi/L	+ -57.6	pCi/L	1.00	69		07/21/08

MDL=Minimum Detection Limit

RQ=Result Qualifier

TP Err=Total Propagated Error

DF=Dilution Factor

* - Indicates results that have NOT been validated; + - Indicates more than six qualifier symbols

Report WGPP/ver. 5.2

Groundwater Remediation Program

B - The analyte < the RDL but > = the IDL/MDL (inorg)

D - Analyte was identified at a secondary dilution factor(inorg)

U - Analyzed for but not detected above limiting criteria.

D - Analyte was identified at a secondary dilution factor

U - Analyzed for but not detected above limiting criteria(inorg)

X - Other flags/notes described in the comments/narrative(inorg)

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR02441
Client ID: B1W7V3

TRENT
 WSCF

Matrix: WATER

Group #: WSCF20081412
Department: Radiochemistry
Sampled: 07/11/08
Received: 07/11/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Gross Alpha/Gross Beta (AB32)											
Gross alpha	12587-46-1	LA-508-415		8.30	pCi/L	+ -4.98	pCi/L	1.00	4.7		07/21/08
Gross beta	12587-47-2	LA-508-415		2.80e + 03	pCi/L	+ -280	pCi/L	1.00	19		07/21/08

MDL=Minimum Detection Limit

RQ=Result Qualifier

TP Err=Total Propagated Error

DF=Dilution Factor

B - The analyte < the RDL but > = the IDL/MDL (inorg)

D - Analyte was identified at a secondary dilution factor(inorg)

U - Analyzed for but not detected above limiting criteria.

D - Analyte was identified at a secondary dilution factor

U - Analyzed for but not detected above limiting criteria(inorg)

X - Other flags/notes described in the comments/narrative(inorg)

* - Indicates results that have NOT been validated; + - Indicates more than six qualifier symbols

Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR02442
Client ID: B1W7V4

TRENT
WSCF

Matrix: WATER

Group #: WSCF20081412
Department: Radiochemistry
Sampled: 07/11/08
Received: 07/11/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Gross Alpha/Gross Beta (AB32)											
Gross alpha	12587-48-1	LA-508-415		11.0	pCi/L	+ -5.61	pCi/L	1.00	4.5		07/21/08
Gross beta	12587-47-2	LA-508-415		310	pCi/L	+ -40.3	pCi/L	1.00	19		07/21/08

MDL=Minimum Detection Limit

RQ=Result Qualifier

TP Err=Total Propagated Error

DF=Dilution Factor

* - Indicates results that have NOT been validated;

B - The analyte < the RDL but > = the IDL/MDL (inorg)

D - Analyte was identified at a secondary dilution factor(inorg)

U - Analyzed for but not detected above limiting criteria.

D - Analyte was identified at a secondary dilution factor

U - Analyzed for but not detected above limiting criteria(inorg)

X - Other flags/notes described in the comments/narrative(inorg)

+ - Indicates more than six qualifier symbols

Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR02443
Client ID: B1W7V5

TRENT
 WSCF

Matrix: WATER

Group #: WSCF20081412
Department: Radiochemistry
Sampled: 07/11/08
Received: 07/11/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Gross Alpha/Gross Beta (AB32)											
Gross alpha	12587-46-1	LA-508-415		8.70	pCi/L	+ -5.48	pCi/L	1.00	5.3		07/21/08
Gross beta	12587-47-2	LA-508-415		2.70e +03	pCi/L	+ -270	pCi/L	1.00	20		07/21/08

MDL=Minimum Detection Limit
RQ=Result Qualifier
TP Err=Total Propagated Error
DF=Dilution Factor

B - The analyte < the RDL but > = the IDL/MDL (inorg)
 D - Analyte was identified at a secondary dilution factor(inorg)
 U - Analyzed for but not detected above limiting criteria.

D - Analyte was identified at a secondary dilution factor
 U - Analyzed for but not detected above limiting criteria(inorg)
 X - Other flags/notes described in the comments/narrative(inorg)

* - Indicates results that have NOT been validated; + - Indicates more than six qualifier symbols

Report WGPP/ver. 5.2
 Groundwater Remediation Program

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR02444
Client ID: B1W7V6

TRENT
WSCF

Matrix: WATER

Group #: WSCF20081412
Department: Radiochemistry
Sampled: 07/11/08
Received: 07/11/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Gross Alpha/Gross Beta (AB32)											
Gross alpha	12587-46-1	LA-508-415	U	3.60	pCi/L	+ -3.96	pCi/L	1.00	5.2		07/21/08
Gross beta	12587-47-2	LA-508-415		800	pCi/L	+ -88.0	pCi/L	1.00	20		07/21/08

MDL=Minimum Detection Limit

RQ=Result Qualifier

TP Err=Total Propagated Error

DF=Dilution Factor

B - The analyte < the RDL but > = the IDL/MDL (inorg)

D - Analyte was identified at a secondary dilution factor(inorg)

U - Analyzed for but not detected above limiting criteria.

D - Analyte was identified at a secondary dilution factor

U - Analyzed for but not detected above limiting criteria(inorg)

X - Other flags/notes described in the comments/narrative(inorg)

* - Indicates results that have NOT been validated; + - Indicates more than six qualifier symbols

Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR02445
Client ID: B1W7V7

TRENT
WSCF

Matrix: WATER

Group #: WSCF20081412
Department: Radiochemistry
Sampled: 07/11/08
Received: 07/11/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Gross Alpha/Gross Beta (AB32)											
Gross alpha	12587-46-1	LA-508-415		6.50	pCi/L	+ -5.20	pCi/L	1.00	5.9		07/21/08
Gross beta	12587-47-2	LA-508-415		2.90e +03	pCi/L	+ -290	pCi/L	1.00	21		07/21/08

MDL=Minimum Detection Limit
RQ=Result Qualifier
TP Err=Total Propagated Error
DF=Dilution Factor

B - The analyte < the RDL but > = the IDL/MDL (inorg)
 D - Analyte was identified at a secondary dilution factor(inorg)
 U - Analyzed for but not detected above limiting criteria.

D - Analyte was identified at a secondary dilution factor
 U - Analyzed for but not detected above limiting criteria(inorg)
 X - Other flags/notes described in the comments/narrative(inorg)

* - Indicates results that have NOT been validated; + - Indicates more than six qualifier symbols

Report WGPP/ver. 5.2
 Groundwater Remediation Program

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR02446
Client ID: B1W7V8

TRENT
 WSCF

Matrix: WATER

Group #: WSCF20081412
Department: Radiochemistry
Sampled: 07/11/08
Received: 07/11/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Gross Alpha/Gross Beta (AB32)											
Gross alpha	12587-46-1	LA-508-415		8.90	pCi/L	+ -5.61	pCi/L	1.00	5.5		07/21/08
Gross beta	12587-47-2	LA-508-415		2.60e+03	pCi/L	+ -260	pCi/L	1.00	20		07/21/08

MDL=Minimum Detection Limit
RQ=Result Qualifier
TP Err=Total Propagated Error
DF=Dilution Factor

B - The analyte < the RDL but > = the IDL/MDL (inorg)
 D - Analyte was identified at a secondary dilution factor(inorg)
 U - Analyzed for but not detected above limiting criteria.

D - Analyte was identified at a secondary dilution factor
 U - Analyzed for but not detected above limiting criteria(inorg)
 X - Other flags/notes described in the comments/narrative(inorg)

* - Indicates results that have NOT been validated; + - Indicates more than six qualifier symbols

Report WGPP/ver. 5.2
 Groundwater Remediation Program

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR02447
Client ID: B1W7V9

TRENT
 WSCF

Matrix: WATER

Group #: WSCF20081412
Department: Radiochemistry
Sampled: 07/11/08
Received: 07/11/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Gross Alpha/Gross Beta (AB32)											
Gross alpha	12587-46-1	LA-508-415		7.70	pCi/L	+ -5.70	pCi/L	1.00	6.3		07/21/08
Gross beta	12587-47-2	LA-508-415		2.80e + 03	pCi/L	+ -280	pCi/L	1.00	21		07/21/08

MDL = Minimum Detection Limit

RQ = Result Qualifier

TP Err = Total Propagated Error

DF = Dilution Factor

* - Indicates results that have NOT been validated;

B - The analyte < the RDL but > = the IDL/MDL (inorg)

D - Analyte was identified at a secondary dilution factor(inorg)

U - Analyzed for but not detected above limiting criteria.

+ - Indicates more than six qualifier symbols

D - Analyte was identified at a secondary dilution factor

U - Analyzed for but not detected above limiting criteria(inorg)

X - Other flags/notes described in the comments/narrative(inorg)

Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF ANALYTICAL RESULTS REPORT

Attention: Steve Trent
SAF Number: F06-027
Sample # W08GR02448
Client ID: B1W7W0

TRENT
WSCF

Matrix: WATER

Group #: WSCF20081412
Department: Radiochemistry
Sampled: 07/11/08
Received: 07/11/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Gross Alpha/Gross Beta (AB32)											
Gross alpha	12587-46-1	LA-508-415		15.0	pCi/L	+ -8.70	pCi/L	1.00	7.7		07/21/08
Gross beta	12587-47-2	LA-508-415		810	pCi/L	+ -89.1	pCi/L	1.00	22		07/21/08

MDL=Minimum Detection Limit

RQ=Result Qualifier

TP Err=Total Propagated Error

DF=Dilution Factor

B - The analyte < the RDL but > = the IDL/MDL (inorg)

D - Analyte was identified at a secondary dilution factor(inorg)

U - Analyzed for but not detected above limiting criteria.

D - Analyte was identified at a secondary dilution factor

U - Analyzed for but not detected above limiting criteria(inorg)

X - Other flags/notes described in the comments/narrative(inorg)

* - Indicates results that have NOT been validated;

+ - Indicates more than six qualifier symbols

Report WGPP/ver. 5.2

Groundwater Remediation Program

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Radiochemistry

SDG Number: WSCF20081412
Matrix: WATER
Test: Gross Alpha/Gross Beta (AB32)

Sample Date: 07/11/08
Receive Date: 07/11/08

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08GR02438											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Gross alpha	12587-46-1	1.4E+01		RPD			40.343	20.000 *		07/21/08
DUP	Gross beta	12587-47-2	6.0E+02		RPD			8.696	20.000		07/21/08
BATCH QC											
BLANK	Gross alpha	12587-46-1	U2.4	n/a	pCi/L	-10.000	10.000				07/21/08
BLANK	Gross beta	12587-47-2	U6.9E-01	n/a	pCi/L	-10.000	10.000				07/21/08
LCS	Gross alpha	12587-46-1	498	96.418	% Recov	80.000	120.000				07/21/08
LCS	Gross beta	12587-47-2	1580.0	105.650	% Recov	80.000	120.000				07/21/08

WSCF

ANALYTICAL COMMENT REPORT

Attention: Steve Trent
Project Number F06-027

Group #: WSCF20081412
Department: Radiochemistry

Sample #	Client ID	Lab Area	Test	Comment
		VALGROUP		<p>IC Anion - Sample dup RPD out of limits for nitrite in sample W08GR02442; Analyte concentration in sample below calibration range. DTS</p> <p>IC Anion - Sample hold time missed for phosphate in sample W08GR02446. Sample was re-analyzed for phosphate DTS</p> <p>W08GR02438 - W08GR02448/Gross alpha duplicate is flagged for poor RPD but the sample activity is low level. RPD does not apply to low level samples. Imh</p> <p>ICP-AES: No zirconium is present in the LCS standard. Sodium sample result exceeds spiking level by a factor of 4 so spike recoveries are not valid (X flag). Check and high standards are used to ensure sodium and calcium linearity because sample results are greater than the calibration standard.</p> <p>B flag used where sample < 5X MDL</p>

Lab Areas: VALGROUP - Group Validation
LOGSAMP - Login for Sample

VALTEST - Test Validation
LOGTEST - Login for Tests

TESTDATA - Test Data Entry

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wgppc/5.2 Report#: WSCF20081412

Report Date: 17-aug-2008

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ATTACHMENT 5


SAMPLE RECEIPT INFORMATION

Consisting of 5 pages
Including cover page

Waste Sampling and Characterization Facility
P.O. BOX 1970 S3-30, Richland, WA 99352
PHONE: (509) 373-7004/FAX: (509) 373-7134

7/29/08

ACKNOWLEDGMENT OF SAMPLES RECEIVED

F1/5 KB


Groundwater Remediation Program

Richland, WA 99354
Attn: Steve Trent

Customer Code: GPP
PO#: 122561/ES20
Group#: 20081412
Project#: F06-027
Proj Mgr: Steve Trent E6-35
Phone: 373-5869

The following samples were received from you on 07/11/08. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using Waste Sampling and Characterization Facility.

Sample#	Sample Id	Tests Scheduled	Matrix	Sample Date
W08GR02438	B1W7V0	TRENT @AB-32	Water @GPP6010 @IC-30	07/11/08
W08GR02439	B1W7V1	TRENT @AB-32	Water @GPP6010 @IC-30	07/11/08
W08GR02440	B1W7V2	TRENT @AB-32	Water @GPP6010 @IC-30	07/11/08
W08GR02441	B1W7V3	TRENT @AB-32	Water @GPP6010 @IC-30	07/11/08
W08GR02442	B1W7V4	TRENT @AB-32	Water @GPP6010 @IC-30	07/11/08
W08GR02443	B1W7V5	TRENT @AB-32	Water @GPP6010 @IC-30	07/11/08
W08GR02444	B1W7V6	TRENT @AB-32	Water @GPP6010 @IC-30	07/11/08
W08GR02445	B1W7V7	TRENT @AB-32	Water @GPP6010 @IC-30	07/11/08
W08GR02446	B1W7V8	TRENT @AB-32	Water @GPP6010 @IC-30	07/11/08
W08GR02447	B1W7V9	TRENT @AB-32	Water @GPP6010 @IC-30	07/11/08
W08GR02448	B1W7W0	TRENT @AB-32	Water @GPP6010 @IC-30	07/11/08

Test Acronym Description

Test Acronym	Description
@AB-32	Gross Alpha/Gross Beta (AB32)
@GPP6010	ICP Metals Analysis, Grd H2O P
@IC-30	Anions by Ion Chromatography

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COLLECTOR D. Webb		COMPANY CONTACT FABRE, RJ		TELEPHONE NO. 373-2774		PROJECT COORDINATOR TRENT, SJ		PRICE CODE 7G		DATA TURNAROUND 15 Days / 30 Days	
SAMPLING LOCATION 100-NR-2 Pilot Test #1 Site / Day 35 Post-Injection		PROJECT DESIGNATION 100-N Apatite Barrier Performance Monitoring				SAF NO. F06-027		AIR QUALITY <input type="checkbox"/>			
ICE CHEST NO.		FIELD LOGBOOK NO. HNF-N-585-11		ACTUAL SAMPLE DEPTH		COA 122561E520		METHOD OF SHIPMENT GOVERNMENT VEHICLE			
SHIPPED TO Waste Sampling & Characterization		OFFSITE PROPERTY NO.				BILL OF LADING/AIR BILL NO.					

MATRIX* A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	POSSIBLE SAMPLE HAZARDS/ REMARKS Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)	PRESERVATION	HNO3 to pH <2	HNO3 to pH <2	Cool ~4C						
		TYPE OF CONTAINER	P	P	P						
		NO. OF CONTAINER(S)	1	1	1						
		VOLUME	1000mL	250mL	125mL						
	SPECIAL HANDLING AND/OR STORAGE	SAMPLE ANALYSIS	Gross Alpha; Gross Beta;	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS						

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	HNO3 to pH <2	HNO3 to pH <2	Cool ~4C	ICED					
B1W7V5	43 WATER	7-11-8	1040	X	X	X						
B1W7V6	44 WATER	↓	1045	X	X	X						
B1W7V7	45 WATER		1055	X	X	X						
B1W7V8	46 WATER		1100	X	X	X						
B1W7V9	47 WATER		1020	X	X	X						

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS	
RELINQUISHED BY/REMOVED FROM <i>Dr. Webb</i>	DATE/TIME 7-11-8/1140	RECEIVED BY/STORED IN <i>[Signature]</i>	DATE/TIME 7-11-8/1140	(1) ICP Metals - 6010B (TAL); ICP Metals - 6010B (Add-On) (Arsenic, Lead, Molybdenum, Strontium) (2) IC Anions - 300.0 (Chloride, Fluoride, Nitrogen in Nitrate, Nitrogen in Nitrite, Phosphorus in phosphate, Sulfate)	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		

LABORATORY SECTION	RECEIVED BY	DISPOSED BY	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD		

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